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621

Seed Annual 1921

GIANT
CRIMSON

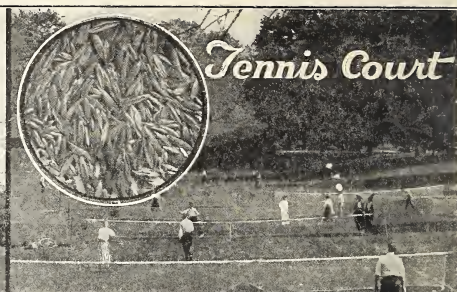
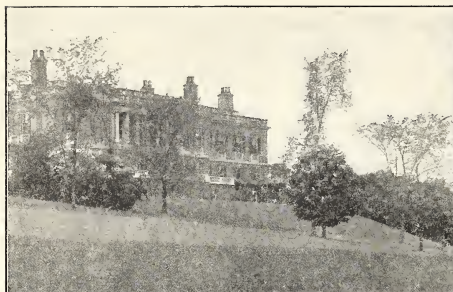
GIANT
YELLOW

GIANT
ROSE

S. & W. CO.'S GIANT
DOUBLE-FLOWERING
ZINNIAS

25 CENTS PER PACKET
COLLECTION, 1 PACKET EACH
OF 3 COLORS, 50 CTS

STUMPP & WALTER CO.
30 & 32 BARCLAY ST., NEW YORK



Staigreen



S. & W. Co.'s Grass Seed Mixtures

Produce Lawns which are Pleasing in Color,
Perfect in Texture, and they "*Staigreen*"
in spite of hard use.

PRICES

Following delivered Anywhere in the U. S.

Staigreen Lawn Mixture: for carpet-like turf	Lb.	2½ lbs.	5 lbs.	12½ lbs.	25 lbs.	100 lbs.
	\$0.50	\$1.20	\$2.30	\$5.50	\$10.50	\$40.00
	Qt.	4 qts.	8 qts.	Bus.	10 bus.	
Shady Place Lawn Seed	\$0.50	\$1.75	\$3.25	\$12.00	\$115.00	
Tennis Court Grass Seed	.50	1.75	3.25	12.00	115.00	
Terrace Sod Lawn Seed	.45	1.50	2.50	9.00	85.00	

Quantity to Order

One pound sows 20 ft. x 20 ft. (400 sq. ft.) 100 pounds sow 1 acre
One quart sows 15 ft. x 15 ft. (225 sq. ft.) 4 bushels sow 1 acre

Double these quantities when turf is needed quickly

To Repair Turf that is worn and jaded, use one-half these quantities

	Oz.	¼ lb.	Lb.	10 lbs.	100 lbs.
White Lawn Clover	\$0.10	\$0.25	\$0.90	\$8.50	\$80.00

Following shipped at Purchaser's Expense

Emerald Lawn Dressing

A concentrated Grass Food. Scatter 10 pounds on an area of 300 square feet; 1,000 to 1,500 pounds to the acre. Use two-thirds these quantities for renovating.

5 lbs.	10 lbs.	25 lbs.	50 lbs.	100 lbs.	500 lbs.	Ton
\$0.50	\$0.90	\$2.00	\$3.50	\$6.00	\$25.00	\$80.00



Shady Place



Terrace Sod



THE TESTING OF SEEDS To Prove Their Germination and Purity



(1) **Germination Tests.** As shipments of seeds are received from individual growers, several samples are taken, and from these samples a definite number of seeds are counted. The counted seeds are sown carefully in suitable soil.



(2) **Germination Tests.** During the winter months, greenhouses on the Stumpp & Walter testing-grounds contain thousands of seed samples being grown under natural soil conditions.



(3) **Germination Tests.** Sturdy plants resulting from the counted seeds are removed and recorded. Only those seed-stocks that are sturdy, showing a maximum vitality are passed as being suitable for sale.



(4) **Purity Tests.** All through summer, vegetables and flowers from every stock of seed produced for the Stumpp & Walter Co. are grown along to maturity, under exactly the same conditions as when cultivated in their customers' gardens.



(5) **Purity Tests.** A crop pulled and ready for inspection by our experts. Many of our seeds are "proved stocks," that is, they are not released for sale until it has been ascertained definitely that they produce the results intended.

SPECIAL FREE DELIVERY

We will deliver all Seeds and Bulbs listed in our catalogue anywhere in the United States, if your purchase amounts to One Dollar or over, when cash accompanies your order, by mail, express, or freight at our option, to your town or city. On Implements, Fertilizers, Insecticides, Plants and Potatoes, we do not pay mail, express, or freight charges, nor do we on Peas, Beans, and Corn, but a reference to the pages on which these are offered will give the slight additional charge necessary to cover cost of mailing.

Packing.—We make no charges for cases or packing, only for cotton and burlap bags; these we invoice at cost and make full allowance when returned, prepaid, in good condition.

Remittances should be made by Draft on Bank, Post-Office Order, Registered Letter, or Express Money Order. Small sums may be sent in postage stamps. Particular care is essential in having name, post-office, county and state

distinctly written; we are in receipt of many orders deficient in these important particulars. Charge accounts are readily opened to all persons of approved credit.

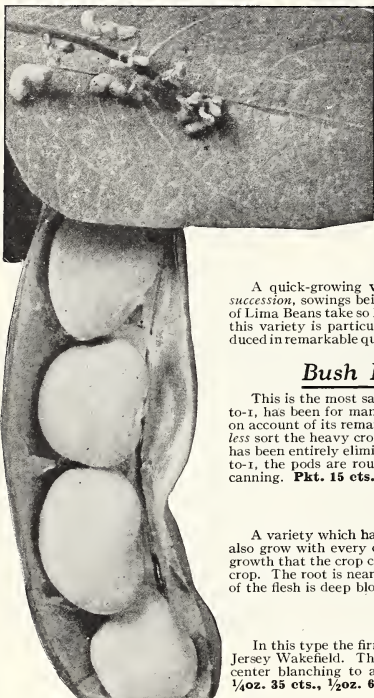
Non-Warranty.—We, Stumpp & Walter Co., give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants we send out, and will not be responsible for the crop.

All claims must be made within 5 days after receipt of goods.

GEORGE G. STUMPP, *President*
JULIAN H. WALTER, *Treasurer*
WILLIAM A. SPERLING, *Secretary*

STUMPP & WALTER COMPANY
30-32 Barclay Street, New York City

The NEWEST and BEST VEGETABLES



Varieties of Recent Introduction and Special Strains of Types that are Standard

It is our practice to grow as many samples of vegetables as we can in our trial-grounds every year. These samples are given average cultivation and are carefully watched: those that prove true to type and desirable are used to supply our customers. Once in a while we find one that shows exceptional merit, one that every up-to-date gardener should grow. These strains, which have been demonstrated superior, deserve special catalogue prominence, and they are accordingly described on this and the following three pages—opening pages of our Catalogue devoted to all that is newest and best in vegetables.

Lima Bean, Early Giant Bush

A quick-growing variety. The short period in which this Bean matures enables it to be grown for succession, sowings being made from May 15 to July 10 in the neighborhood of New York. Other varieties of Lima Beans take so long to mature that more than one seeding is barely practical with them. The flavor of this variety is particularly refined, and the fine, luscious Beans, which are large, thick, and flat are produced in remarkable quantity. **Pkt. 15 cts., 1/2 lb. 35 cts., 1 lb. 60 cts., 2 lbs. \$1.15, 5 lbs. \$2.55, 15 lbs. \$8.45.**

Bush Bean, New Stringless Refugee (Green-Pod)

This is the most satisfactory all-round Bean we know of. The old standard variety, Refugee, or 1,000-to-1, has been for many years the most generally used for midseason seeding for canning purposes, chiefly on account of its remarkable yielding properties; its shape and size too make it suitable. In this new stringless sort the heavy cropping quality has been maintained; the remarkable fine flavor has too, but the string has been entirely eliminated, giving us in Stringless Refugee the Ideal Bean. It is a trifle earlier than 1,000-to-1, the pods are round, thick, and fleshy, and it is suitable alike for immediate use, for pickling, or for canning. **Pkt. 15 cts., 1/2 lb. 25 cts., 1 lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.**

Beet, Early Wonder

A variety which has gained wide popularity among market-gardeners, and one which the amateur may also grow with every confidence. It may be sown early, and it matures very rapidly. It is so uniform in growth that the crop can be lifted practically at one time, yielding the land early and quickly for the second crop. The root is nearly globular in shape, slightly flattened. The leaves are of medium size, and the color of the flesh is deep blood red. **Pkt. 15 cts., oz. 40 cts., 1/4 lb. \$1.25, 1 lb. \$4.**

Cabbage, Early Cone Savoy

In this type the firm, close, solid heart is of a conical shape, corresponding in smooth Cabbages to Early Jersey Wakefield. The leaves are heavily and deeply corrugated; in color they are a rich dark green, the center blanching to a creamy white. Of all Savoy, this is the most refined in flavor. **Pkt. 20 cts., 1/4 oz. 35 cts., 1/2 oz. 60 cts., oz. \$1.10, 1/4 lb. \$4.**

Red Cabbage, Zenith

We consider this a great improvement on all other types of Red Cabbage. The heads are of medium size and very solid; the leaves are of fine texture with thin light ribs, the outer leaves being few and small. In color, Zenith is particularly dark, and the variety is the best we know for home pickling or for market. It is not generally known, by the way, that Red Cabbages are just as usable and just as desirable for serving as a cooked vegetable as the green sorts. **Pkt. 20 cts., 1/4 oz. 35 cts., 1/2 oz. 60 cts., oz. \$1, 1/4 lb. \$3.50.**

Carrots

S. & W. Co.'s Exhibition Chantenay. This is a specially refined stock producing uniformly smooth handsome deep orange roots. Although intended primarily for prize-winning, the cooking qualities of Exhibition Chantenay are similarly superior. **Pkt. 15 cts., oz. 40 cts., 1/4 lb. \$1.25, 1 lb. \$4.**
S. & W. Co.'s Exhibition Danvers. A gilt-edge stock that is superior alike for the show-board and the table. **Pkt. 15 cts., oz. 40 cts., 1/4 lb. \$1.25, 1 lb. \$4.**

S. & W. Co.'s Melting Marrow. A specially fine Carrot, cylindrical in shape, practically coreless, and of wonderful butter quality. The skin is smooth, and the fine red color is carried through the entire root. This variety is recommended particularly to the notice of the private gardener for exhibition and to the commercial grower for profit. It is, further, the best Carrot we know for table quality. **Pkt. 15 cts., oz. 40 cts., 1/4 lb. \$1.25, 1 lb. \$4.**



S. & W. Co.'s Exhibition Chantenay Carrots



S. & W. Co.'s Golden Plume Celery

The Money-Maker

The Celery that both Amateur and Professional Gardeners have wanted so long

Once in a great while a new type of vegetable is introduced that has such merit as to at once make it a winner with the large commercial grower. Golden Plume is a winner, and it is an acquisition of which we are really proud.

For the past few seasons we had observed a much-improved form of Golden Self-blanching on the New York vegetable markets; there had been very little of it, but what small quantities were brought in obtained big prices, the type was so fine. We eventually traced this new variety to its source, and found it to be the result of many years' selection by one of the most successful growers in this section. The raiser had taken the green plants which may be found occasionally in the best stocks of Self-blanching, and had bred from them a new golden type remarkable for its high quality, wonderful golden color, and disease-resisting properties.

This remarkable new solid Celery is rust- and blight-proof, is early, and is larger and a better keeper than the French-grown Self-blanching. It is heavy, crisp, and tender, possessing a fine nut-like flavor. It shows the large, full plume center, and is named truly when we call it Golden Plume. In our own trial-ground tests, and in the largest commercial and private establishments in the country, it has shown right from the seedling stage its marked superiority over all other types.

The history of Golden Plume is interesting as showing the real service to the community that is performed by the observant modern seed-house. Without our efforts it is unlikely that this wonderful variety would ever have become available to the gardener and trucker.

It is with regret we announce that, owing to the unusually severe winter of 1919-20, our seed crop is very short. We are able this season to offer in packets only. Pkt. 25 cts., 5 pkts. \$1.

New Corn, De Lue's Golden Giant

One of the parents of this fine variety is Golden Bantam, but Golden Giant more than retains the sweetness of its ancestor. It is quite as early, averages more ears to the stalk, and the ear has three times the bulk and weight, averaging 8 inches in length. Golden Giant has a 12- to 20-rowed ear against the 8-rowed ear of Bantam. The plant has the same medium-dwarf habit of Bantam, and, on account of its heavy yield, it is the one Corn for the gardener who looks for the largest production of the best quality Corn on the smallest area of ground.

Golden Giant has been obtained at the expense of years of work and a fortune in money on the part of Dr. De Lue, a well-known New England dietetic specialist, who is enthusiastic over the healthful properties, as an article of food, of Corn in general and Golden Giant in particular. **Pkt. 25 cts., 1/2 lb. 65 cts., 1 lb. \$1, 2 lbs. \$1.75, 5 lbs. \$4.**

Cucumber, Burrell's Earliest of All

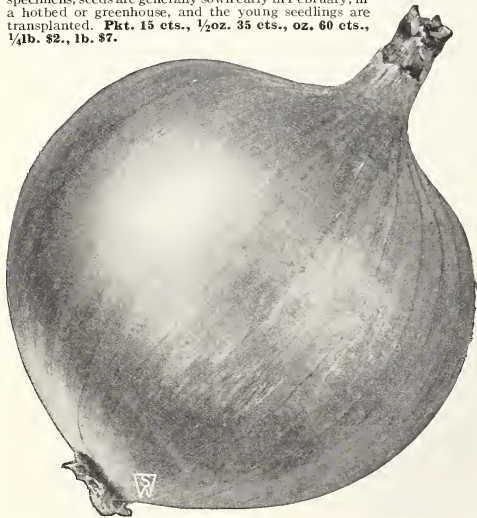
A fine variety of the White Spine class, and one that is of value alike to the commercial and private gardener on account of its earliness; it being ready to market fully two weeks in advance of Improved White Spine. The fruits are of good quality, full and abruptly tapering, with a handsome, deep green skin. **Pkt. 15 cts., oz. 40 cts., 1/4 lb. \$1.25, 1 lb. \$4.**

Muskmelon. "10/25" Salmon Tint

The Rocky Ford Muskmelon has been improved under the direction of Professor Blinn of the Colorado Experiment Station, and "10/25" is the best yet. The fruit is heavily and evenly netted, very uniform in size, rust-resisting and early; the flesh is a rich gold in the center, shading out to emerald-green near the rind. The flavor is highly aromatic and pleasing to a degree. It is claimed that once the public knows "10/25" Salmon Tint, few other varieties will be sold. **Pkt. 15 cts., oz. 40 cts., 1/4 lb. \$1.25, 1 lb. \$4.**

Exhibition Onion, Gigantic Gibraltar

By far the most dependable strain of the giant type of Onion. It is somewhat similar in appearance to Prizetaker, except that it is lighter in color, and, while larger in size, is a splendid keeper and of decidedly mild flavor. In some cases the Onions have weighed 3 1/2 pounds, and are quite the largest we have ever seen. Comparative tests show that from an exhibition standpoint its longer period of growing warrants a trial against the favorite Ailsa Craig. To grow these extra-large exhibition specimens, seeds are generally sown early in February, in a hotbed or greenhouse, and the young seedlings are transplanted. **Pkt. 15 cts., 1/2 oz. 35 cts., oz. 60 cts., 1/4 lb. \$2., 1 lb. \$7.**



Gigantic Gibraltar. A mammoth Onion possessing mild flavor and excellent keeping qualities



De Lue's Golden Giant. The newest, large, early Golden Sweet Corn

Parsley, S. & W. Co.'s Exhibition

Curled

This Parsley is remarkable for its fine leaves and close habit. In flavor it is superior to that of any known variety, and it is very tender. The seed offered has been saved from exhibition plants only, every one of which is a perfect specimen. For garnishing or for decorating the exhibition table, this will be found unsurpassed. **Pkt. 25 cts., 5 pkts. \$1.**

Parsnip, S. & W. Co.'s Selected Exhibition

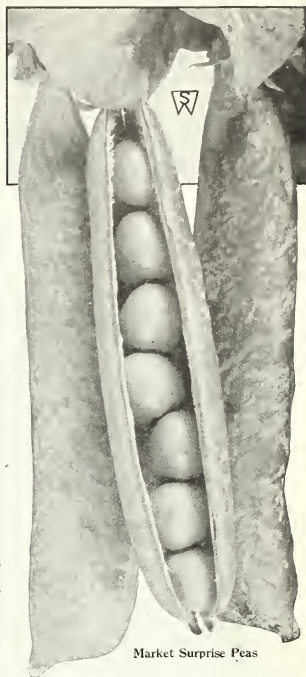
A splendid Parsnip for exhibition purposes. This variety, grown by a very successful exhibitor, was pronounced quite the best of five varieties sent for exhibition purposes. It is superb in form, of a beautiful pearly white color. **Pkt. 25 cts., 5 pkts. \$1.**

Three Wonderful Peas

Eight Weeks. A remarkable super-first-early round-seeded Pea, growing 18 inches high. It may be sown on a warm, sheltered border at a time when snow is still present in other parts of the garden; the result will be *Peas weeks* before those obtained from the main seedlings with standard varieties. **Pkt. 15 cts., 1/2lb. 35 cts., 1b. 60 cts., 2 lbs. \$1.15, 5 lbs. \$2.55, 15 lbs. \$8.45.**

Market Surprise. On vines 3 feet tall, Market Surprise bears 3 1/2-inch pods in great quantities, within 60 days from date of sowing. It is thus but four days later than the best Extra-Early, while the pods contain on an average two more Peas and the Peas are larger. They are of truly remarkable sweetness for so early a sort. Home-gardeners, as well as truckers, will find this new sort a big surprise in every way. **Pkt. 15 cts., 1/2lb. 35 cts., 1b. 60 cts., 2 lbs. \$1.15, 5 lbs. \$2.55, 15 lbs. \$8.45.**

World's Record. Among early main-crop Peas of medium height, Gradus, or Prosperity, takes first place, happily named, indeed, on account of its high yield and superb flavor. In World's Record these points are more than maintained; the yield is as high and the quality, if anything, is enhanced. The great point in favor of the new sort is its *earliness*, the period from seed to maturity being less by a week than that of the standard Gradus. **Pkt. 15 cts., 1/2lb. 35 cts., 1b. 60 cts., 2 lbs. \$1.15, 5 lbs. \$2.55, 15 lbs. \$8.45.**



Market Surprise Peas

Swiss Chard, S. & W. Co.'s Mammoth New York

This is a new and quite distinct sort, medium green in color, and of large size. The leaves are smooth, and the stalks are solid, thick, and of a pearly whiteness. Careful breeding has entirely eliminated the earthy flavor which many Chards possess. We anticipate a large demand for this variety. **Pkt. 15 cts., 1/2oz. 35 cts., oz. 65 cts., 1/4lb. \$2.50.**

S. & W. Co.'s Exhibition Strain of New Globe Tomato

Unquestionably the highest standard of perfection yet attained in a Tomato. If you want to limit yourself to any one sort, select this one and results in the Tomato patch next summer will convince you of the wisdom of your choice.

Our strain of New Globe is uniformly early. Within 10 days after Earliana, or June Pink, the first of its deep rose-colored fruits become ripe. From then on, until frost kills the last flowers, this strain of Globe bears magnificent crops of fruits.

The plants are extremely prolific, especially if trained to stakes and pruned. The first crown clusters of slightly flattened fruits will set within 8 inches of base of plant. Succeeding clusters produce uniform fruits of true globe shape; clusters of four to six of them, averaging 3 inches in diameter each way, are borne every 6 to 8 inches all along the branches.

For best results each plant should be reduced to three of the strongest branches. For solidity of fruit, firmness of flesh and delicious flavor, S. & W. Co.'s Exhibition Strain of New Globe Tomato has no superior. The fruits contain very few seeds; hence the true strain of this will never be obtainable at low prices. Our illustration does this variety scant justice. **Pkt. 15 cts., 1/2oz. 45 cts., oz. 85c., 1/4lb. \$2.75.**



S. & W. Co.'s Exhibition Strain of New Globe. A Tomato which, for solidity of fruit, firmness of flesh and delicious flavor, has no superior

Stumpp & Walter Co.'s Vegetable Seeds

It has always been our endeavor to list only such sorts of Vegetable Seeds as, from our tests, we have found to be of superior merit; and, while we have in many instances not listed certain varieties, which have been struck out on account of being out of date, we have in every instance listed a superior sort which we can recommend as being more satisfactory both for the market and the home garden.

WE STRONGLY RECOMMEND ALL VARIETIES LISTED IN BOLD TYPE

ASPARAGUS ROOTS

The demand for Asparagus as an early spring vegetable is becoming quite popular. It is generally thought that it requires too much space for growing, but a plot 10 feet wide and 30 feet long will be sufficient to plant 100 of our Mammoth 3-year-old roots, sufficient for an ordinary family. Roots of this age should be planted, as they will yield Asparagus the following year.

CULTURE.—Dig a trench, 1½ feet deep and 1 foot wide, and fill in about 4 inches with well-rotted manure, tread down firmly. On this put about 5 inches of good, rich soil, and then lay the roots in, about ½ foot apart, taking care to spread well, having the crown in an upright position. Cover to within 4 inches of the top of the trench and, as the plants grow, gradually fill the trench to the surface. For spacing between the rows allow 1 foot.

Conover's Colossal, Columbian Mammoth White and

	Palmetto	100	1,000
Selected One-Year Roots.....	\$1 50	\$12 00	
Extra-choice Two-Year Roots.....	2 50	20 00	
Mammoth Three-Year Roots.....	3 50	30 00	
FORCING CROWNS.....	\$1.50 per doz.	10 00	90 00

ASPARAGUS SEED

One ounce will plant about 50 feet of drill

Conover's Colossal. A mammoth green sort of the largest size and of good quality. The best of the old kinds. Pkt. 5 cts., oz. 15 cts., ¼lb. 35 cts., lb. \$1.

Columbian Mammoth White. A sport from Conover's Colossal. It produces pure white shoots and requires no artificial blanching. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.50.

ARTICHOKE

One ounce will produce 500 plants

The scales and bottom of the flower-heads are eaten, either boiled or raw, as a salad. The young suckers are sometimes tied together and blanched and served in the same manner as asparagus. The plants thrive best in deep, rich soil where the water will not lodge in winter-time. Sow seeds indoors, and pot up similar to tomatoes, setting out in May, in rows 3 feet apart, leaving 2 to 3 feet between the plants. Some flower-buds may be had the first year. Cover with ashes and leaves in winter. Usually bears best the second year.

Large Green Globe. The best variety. Pkt. 25 cts., ½oz. 90 cts., oz. \$1.50, ¼lb. \$5.

ARTICHOKE ROOTS

Jerusalem Artichoke. Distinct from the Globe, and propagated by and for the tubers. Plant in rows, 3 feet apart and 1 foot apart in the row, and cultivate occasionally. Allow the tubers to remain in the ground until needed. Used for feeding stock or pickling, or may be served boiled, like new potatoes. Qt. 35 cts., pk. \$2.

Forcing Crowns of Asparagus, Rhubarb, and Witloof Chicory easily forced for the table. See page 40.

Asparagus, Columbian Mammoth White

LIMA BEANS

Dwarf Bush

BEANS

$\frac{1}{2}$ lb. equals about $\frac{1}{2}$ pint
 1 lb. equals about 1 pint
 2 lbs. equal about 1 quart
 15 lbs. equal about 1 peck

One pound will plant 50 to 100 feet of drill

If wanted by mail, add 5 cts. per $\frac{1}{2}$ pound, 10 cts. per pound, and 15 cts. per 2 pounds to the prices listed

Fordhook. A form of the popular Challenger or Potato Lima, and earlier. Both pods and Beans are almost twice the size of the Kumerle or Dreer's Bush Lima. Pods measure 4 to 5 inches, frequently containing 4 fine Beans of the finest flavor. **Pkt.** 10 cts., $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 2 lbs. 95 cts., 5 lbs. \$2.35, 15 lbs. \$6.95.

New Improved Bush Lima. Similar to Burpee's Bush Lima except that larger and thicker Beans. A far greater producer; growth more vigorous; the blossom-bearing stalks are thrown well out of the foliage, and the Beans are ready for picking a full week earlier. $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 2 lbs. 95 cts., 5 lbs. \$2.35, 15 lbs. \$6.95.

Early Giant. (See Novelties, page 2.) **Pkt.** 15 cts., $\frac{1}{2}$ lb. 35 cts., lb. 60 cts., 2 lbs. \$1.15, 5 lbs. \$2.85, 15 lbs. \$8.45.

Dreer's Bush (Dwarf Potato Lima). A thick, almost round Bean, the pods growing close together on the vines. $\frac{1}{2}$ lb. 30 cts., lb. 55 cts., 2 lbs. \$1.05, 5 lbs. \$2.60, 15 lbs. \$7.70.

Henderson Bush Lima. Both pods and Beans are small, but they are produced in large quantities. The standard Lima for canning. $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Prolific Bush Lima. Of the same type as Henderson, equally prolific and equally suitable for canning, but decidedly larger. $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

CULTURE OF LIMA BEANS.—Don't waste your seed by sowing Lima Beans before all danger of frost is over and the soil is thoroughly warm. Sow **Bush sorts** in rows 2 feet apart and about 3 inches deep, putting the Beans 2 inches apart in the row "eye down," later thinning so that the plants stand 6 to 8 inches apart. For **Pole varieties** put six seeds in each hill, arranging the hills 3 feet apart each way. They require a pole 7 feet high, and when the vines have reached the top, pinch them and so increase the yield. Some gardeners plant under glass and transplant about the time seeds are usually sown. Limas always do best on a nice, rich, loamy soil.

Fordhook Bush Lima Beans

Surplus stock may be ripened on the vines, dried and kept for winter use.

LIMA BEANS (Pole)

One pound will plant 50 hills

If wanted by mail, add 5c. per $\frac{1}{2}$ pound, 10c. per pound, and 15c. per 2 pounds to the prices listed

S. & W. Co.'s Green-seeded. The vine is very strong, of vigorous growth, with many pods which are closely filled with large Beans. The pods contain from three to four Beans, a large proportion containing four. This is a broad-seeded Bean, much thicker than the ordinary Pole Lima. It is a plump, well-developed seed and comes nearer to having every Bean perfect than any other Pole Lima. The green tint is a distinctive feature of this Bean, for it retains this tint in the dry state to a greater extent than usual, which indicates the fine qualities which it possesses, being fine-flavored and more tender when cooked than white-seeded Beans, and making it more pleasing to gardeners and housekeepers. It is the most perfect Pole Lima. $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.25.

Early Leviathan. The earliest variety of Pole Lima; produces pods in clusters. A splendid variety where the season is short. **Pkt.** 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Challenger, or Potato. Early and more prolific than the large Lima; a small Bean of decidedly excellent flavor. $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Ford's Mammoth. Very large pods, frequently measuring 9 inches long; Beans flat and large; fine for the home-garden; productive and of good flavor. $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

S. & W. Co.'s Green-seeded Pole Lima Beans



Bountiful
Green-Podded
Beans

DWARF or BUSH BEANS

One pound will plant
100 feet of drill

CULTURE.—Plant as soon as danger of frost is over, placing the seeds 2 to 3 inches apart in drills and about 2½ inches deep. The rows should be about 2½ feet apart, and the soil slightly hilled, to insure good drainage and keep the Beans from touching the ground. Most Beans should be picked when about 4 inches long. Frequent pickings insure a more prolonged bearing season. Avoid jerking the plant, as this frequently disturbs young feeding roots. Use the finger-nails to sever the stems. Do not pick when bushes are wet, as this may cause blight and rust. For succession in the home-garden plant 30 feet of row every other week up to August 1.

GREEN-PODDED BEANS

If wanted by mail, add 5c. per ½ pound, 10c. per pound, and 15c. per 2 pounds to the prices listed

Bountiful. To this Bean belongs the distinction of being one of the best flat, Green-podded Bush Beans; very prolific and a continuous bearer from early spring to late fall. It is tender and of delicious flavor. Is as entirely stringless as the breeder has been able to make a flat, green-podded Bean. Its pods contain a little more fiber than Stringless Green-Pod of like age, but they average large and are entirely stringless until they become longer than 5 inches. One of the earliest Bush Beans. Pkt. 10 cts., ½ lb. 20 cts., lb. 30 cts., 2 lbs. 55 cts., 5 lbs. \$1.35, 15 lbs. \$3.95.

Stringless Green-Pod. This Bean remains among the very best first-early round-podded Bush Beans. A very free bearer; entirely stringless; averages 5 inches long and is slightly curved. A handsome sort, borne on a healthy plant which stands dry weather well. ½ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Giant Stringless Green-Pod. Pods greatly resemble those of Stringless Green-Pod. Fully an inch longer in size and a trifle earlier. A variety that is largely grown for the market on account of its size and splendid shape. Splendid sort for succession when planted with Stringless Green-Pod. ½ lb. 25c., lb. 40c., 2 lbs. 75c., 5 lbs. \$1.85, 15 lbs. \$5.45.

Black Valentine. A Bean which has been planted extensively in the South on account of its heat-resisting qualities. Matures early, producing long, round, straight pods, which are tender when quite young. Perfects the crop all at once, hence valuable as a market sort. Pkt. 10c., ½ lb. 20 cts., lb. 30 cts., 2 lbs. 55 cts., 5 lbs. \$1.35, 15 lbs. \$3.95.

Early Red Valentine. This variety is valuable on account of its earliness. Pods very fleshy, round and saddle-backed, with slight strings. Bushes grow uniformly about 15 inches in height and produce a large crop. ½ lb. 20 cts., lb. 30 cts., 2 lbs. 55 cts., 5 lbs. \$1.35, 15 lbs. \$3.95.

Dwarf Horticultural. Pods are medium in length, slightly curved, and when nearly developed are splashed with bright red on a yellow skin. The green-shelled Beans are of fair size, tender, and fine flavored. ½ lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, 15 lbs. \$4.70.

Ruby Horticultural. A much-improved form of Dwarf Horticultural and a favorite with the market-gardener. As a Snap Bean the pods are thicker and more meaty than the type, and they have no strings. There is also no better Shell Bean than this variety. ½ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Longfellow. Extra-early, producing long, round, green pods which are tender, brittle, and stringless when young. ½ lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, 15 lbs. \$4.70.

Refugee, or 1,000-to-1. One of the latest Beans. The pods are nearly round, light green, 5 inches long, terminating in a slender point; fleshy, brittle, and mild in flavor, with but slight strings. Pkt. 10 cts., ½ lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, 15 lbs. \$4.70.

Stringless Refugee. (See Novelties, page 2.) Pkt. 15 cts., ½ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

BEANS FOR DRY SHELLING

Pea, or Navy. A snowy white variety of uniform small size. The plants grow upright and bear the pods well off the ground. A field Bean of which large acreages are grown. ½ lb. 20c., lb. 30 cts., 2 lbs. 55 cts., 5 lbs. \$1.35, 15 lbs. \$3.95.

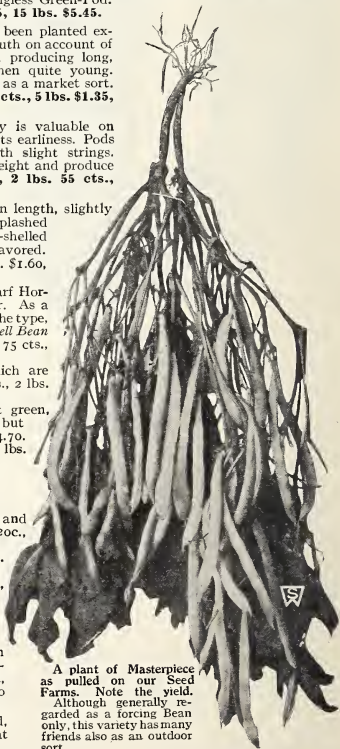
Boston Marrow. A Bean of larger size than the Pea or Navy, but not as productive. ½ lb. 20 cts., lb. 30 cts., 2 lbs. 55 cts., 5 lbs. \$1.35, 15 lbs. \$3.95.

Red Kidney. An excellent variety for baking. ½ lb. 20 cts., lb. 30 cts., 2 lbs. 55 cts., 5 lbs. \$1.35, 15 lbs. \$3.95.

FORCING BEANS

Masterpiece. We offer the true strain of this fine English variety, carefully grown by experts under our supervision. Masterpiece is of splendid constitution, a quick grower and very prolific, the pods attaining a length of over 7 inches, straight, tender, meaty and stringless. As a quick grower under glass, Masterpiece is difficult to beat. Bean thick-flat. ½ lb. 55 cts., lb. \$1, 2 lbs. \$1.90, 5 lbs. \$4.75, 15 lbs. \$14.15.

S. & W. Co.'s Wonder. Of fine color and refined flavor. The pods are round, average 6 inches in length, and they are borne in great abundance. ½ lb. 35 cts., lb. 60 cts., 2 lbs. \$1.15, 5 lbs. \$2.85, 15 lbs. \$8.45.



A plant of Masterpiece as pulled on our Seed Farms. Note the yield. Although generally regarded as a forcing Bean only, this variety has many friends also as an outdoor sort.

DWARF or BUSH WAX-PODDED BEANS

One pound will plant 100 feet of drill

If wanted by mail, add 5 cts. per ½ pound, 10 cts. per pound, 15 cts. per 2 pounds

Sure-Crop Stringless Wax. The plant grows to a large size and, having a strong, thick stem, stands up well even during a long season of stormy weather, thus protecting the pods from dirt and dampness. It is very productive, bearing in great abundance large handsome, golden yellow pods which are stringless and tender at all stages of development. Being very hardy, the seed may be planted early. **Sure-Crop** is more rust-proof and will stand a longer season of damp, wet weather than any other Stringless Wax Bean. ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Hardy Wax. One of the best round-podded stringless Wax Beans ever evolved. The plants have thick, leathery leaves which resist cold, blight and plant diseases to a marked degree. Within 65 or 70 days of planting, Hardy Wax bears immense crops of slightly curved deep yellow pods. Remains in bearing for a remarkably long period. Pkt. 15 cts., ½lb. 30 cts., lb. 55 cts., 2 lbs. \$1.05, 5 lbs. \$2.60, 15 lbs. \$7.70.

Brittle Wax. Without a doubt the earliest of all Wax Beans; also a great cropper. The bushes are remarkably hardy and extremely prolific, while the pods are fleshy and entirely stringless, often measuring 4½ to 6 inches long. They are broad and solid, tender, brittle and entirely stringless at all stages of growth. The pods have white seeds showing only a small black dot at the eye and where a surplus is allowed to ripen fully they make excellent Shell Beans. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.25.

New Kidney Wax. The fleshy pods are flattened in form, from 6 to 7 inches in length, ½ inch broad and ¾ inch thick; the color is a rich lemon-yellow. Under ordinary field culture the plants produce nearly twice as many pods as the Wardwell. The pods are remarkable for their meatiness, fine flavor, brittleness and absolute freedom from strings or tough fiber. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

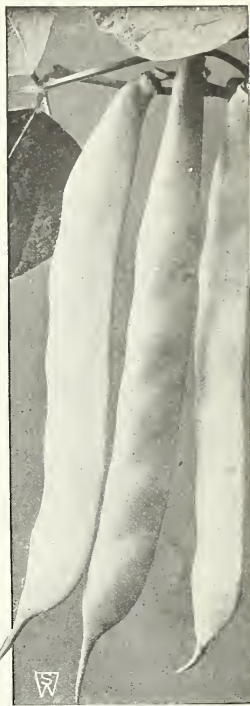
New Hodson Wax. A distinctly late variety, bearing enormous quantities of flat but fleshy pods of a creamy yellow color. The plant is vigorous, and comes into bearing in from 80 to 85 days from date of sowing the seeds. The pods of this variety often measure 7 to 8 inches in length and are remarkably free from spot or rust. ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Improved Golden Wax. A very early variety with flat, golden pods. Pkt. 10 cts., ½lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, 15 lbs. \$4.70.

Improved Black Wax. The pods are round, and they are yielded in large quantities; early. ½lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, 15 lbs. \$4.70.

Davis White Wax. Long, straight, handsome pods. The seed is white and excellent for green shelling and for baking. ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Wardwell Kidney Wax. Extra early; long, flat, waxy pods. ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.



Sure-Crop Stringless. A fine flat-podded Wax Bean

BROAD BEANS

Windsor. The heavy pods are produced in pairs and usually contain three seeds. They are prepared for the table in the same way as Limas. As a matter of fact, Windsor Beans are sometimes termed the English Lima, but differ from all other American types in that they are not sensitive to cold. Good results are only obtainable from seeds planted in early spring on strong retentive soil. ½lb. 30 cts., lb. 50 cts., 2 lbs. 95 cts., 5 lbs. \$2.35, 15 lbs. \$6.95.

POLE or RUNNING BEANS

One pound will plant 200 hills

Old Homestead (Green Kentucky Wonder). An improved sort of this well-known Bean. The pods are entirely stringless and of silvery green color, hanging in large clusters from the top to the bottom of the pole. One of the most prolific. Pkt. 10 cts., ½lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, 15 lbs. \$4.70.

Golden Cluster Wax. The leading early Wax Pole Bean. Pods are tender and of fine flavor. Few Beans equal this as a "snap sort" while young, or as a dry, pure white Shell Bean for winter use. Pkt. 10 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

Kentucky Wonder Wax. A Pole Bean that is quicker to yield from seeding than most others. The long pods are meaty, brittle, and of good flavor. ½lb. 25c., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

Lazy Wife. Green-Pod. The best late, green-podded Pole Bean. The pods are of a medium dark green; broad, thick, very fleshy and entirely stringless. ½lb. 25c., lb. 45c., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

Scarlet Runner. Green-Pod. Bright scarlet flowers. ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Yard-Long Asparagus. A remarkable Bean, yielding narrow rounded pods of enormous length. The quality is excellent. Pkt. 15 cts., ½lb. 30 cts., lb. 85 cts.



Hardy Wax. A new, stringless, round-podded variety remarkable for its heavy yielding properties. See text above

NOTE. We now offer Beans by weight instead of measure: one pound is equal to about one pint, two pounds to about one quart.

BEETS

One ounce will sow 100 feet of drill; 5 to 6 pounds to the acre

CULTURE.—Seed should be sown the latter part of April. The ground should be spaded well and deep, placing rows about 18 inches apart, and the drills 1 inch deep. Cover the seed carefully and firm in the ground by walking over the drills. When seedlings appear about 3 inches above ground, thin out to about 4 inches between the plants so as to give ample room for the proper development of the bulbs. Beets are best for pulling when about 2 inches in size. Successive sowings may be made up to the middle of July.

ROUND TYPES

Eclipse. An extra-early sort which produces Beets sixty days from sowing. Of uniform, dark rose red; top-shaped; easily pulled. Flesh dark purplish red with rose zones; remains in table condition for ten days, when it becomes tough. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

Extra-Early Egyptian. A variety which grows very quickly, producing roots of fine quality, flat and smooth. They are pulled when 2 inches in diameter. **Pkt. 10c., oz. 20c., 1/4 lb. 65c., lb. \$2.**

Crosby's Original Egyptian. One of the most widely grown turn-

shaped Beets in cultivation today. Will produce Beets ready for pulling within two or three days after Eclipse. The smooth, dark red roots are topped with light green foliage, which is prominently speckled with dark red. The flesh is carmine, handsomely marked with white zones, very tender and of uniformly sweet quality. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 90 cts., lb. \$3.**

Early Wonder. A variety which has gained wide popularity among market-gardeners, and one which the amateur may also grow with every confidence. It may be sown early, and it matures very rapidly. It is so uniform in growth that the crop can be lifted practically at one time, yielding the land early and quickly for the second crop. The root is nearly globular in shape, slightly flattened. The leaves are of medium size, and the color of the flesh is deep blood red. **Pkt. 15 cts., oz. 40 cts., 1/4 lb. \$1.25, lb. \$4.**

Detroit Dark Red. Extended experience has shown that this Beet comes nearer the ideal than any other, and where but one variety is used this should be the first choice. The round, dark red globe roots are uniformly smooth. The flesh of the very young Beets is almost black-red, turning to dark crimson with dark purple zones as the Beets grow larger. When cooked, the Beets are of an appetizing dark red and very sweet. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

Crimson Globe. In about 70 days from planting one-fourth of the Beets in the Crimson Globe row will be ready for table use. A peculiarity of this and the next variety is that the Beets do not all come to the eatable size at the same time, some growing faster than others, thereby lengthening the period of perfection. Flesh bright red with light purple zones. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

Model Red Globe. About the same season as Crimson Globe. This forms symmetrical roots of dark red that are models of smoothness. It grows quickly past the 2-inch size, and is good for a week to 10 days in the overgrown stage. It differs from Crimson Globe in having almost purplish crimson flesh with little indication of zones. **Pkt. 10 cts., oz. 30 cts., 1/4 lb. 90 cts., lb. \$3.**

Edmand's Blood Turnip. Very regular in shape, deep blood-red, and exceedingly sweet. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

S. & W. Co.'s Winter Keeper. A distinct strain of a main-crop, globe-shaped Beet produced by many years of painstaking selection on the part of a grower who takes particular pride in striving after high ideals in seed selection. Two leading characteristics make this Beet worthy of any gardener's time and space: the uniformly excellent flavor of its flesh at all stages of development and the remarkable manner in which this quality is preserved during winter storage. Beets are almost globe-shaped, tapering somewhat toward the root. The flesh is dark red, sweet and tender at all stages of growth regardless of size. They may be stored in a cellar or pit until the spring, and will cook more tender and sweet than ordinary varieties will when taken from the garden. (See illustration on opposite page.) **Pkt. 15 cts., oz. 45 cts., 1/4 lb. \$1.50, lb. \$5.**

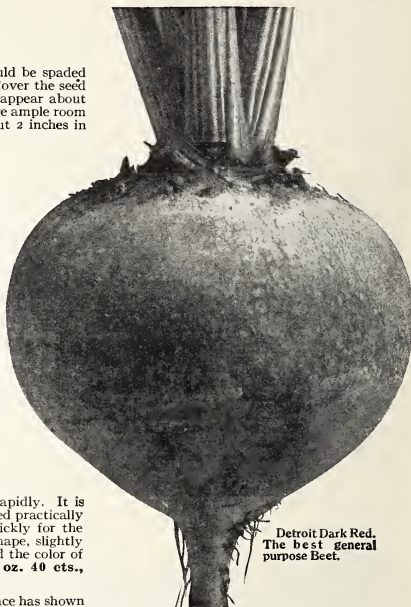
HALF-LONG AND LONG TYPES

Half-Long Blood. An entirely distinct variety. The roots are symmetrical, somewhat pear-shaped, smooth and handsome; flesh a rich, dark red, very sweet, never becoming woody. Economical where little ground is available. **Pkt. 10 cts., oz. 25 cts., 1/4 lb. 80 cts., lb. \$2.50.**

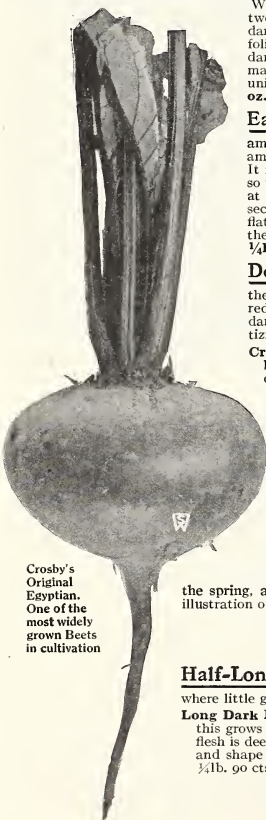
Long Dark Blood. (Out of ground.) A late variety the root of which is over a foot long. Five inches or more of this grows out of the ground, and the harvesting of the Beet is therefore not attended with much difficulty. The flesh is deep red in color, sweet, and of high quality; it keeps in fine condition through into the winter, and its size and shape obviously make it the most economical sort where garden space is limited. **Pkt. 10 cts., oz. 30 cts., 1/4 lb. 90 cts., lb. \$3.**

Cow Beets (Mangels) and Sugar Beets

See Root Crops on pages 42 and 43



Detroit Dark Red.
The best general
purpose Beet.



Crosby's
Original
Egyptian.
One of the
most widely
grown Beets
in cultivation



S. & W. Co.'s Favorite Brussels Sprouts

BRUSSELS SPROUTS

One ounce will produce about 3,000 plants

CULTURE.—Sow in May, in shallow drills, 1 inch deep and 12 inches apart. Transplant in July. When the crown, or top sprout is beginning to head, pinch it out, to admit of the whole strength being thrown into the side shoots. Very hardy. This is a delicious vegetable and should find a place in every garden; greatly improved by first frosts.

S. & W. Co.'s Favorite. New. Semi-dwarf, thickly covered with sprouts by the end of September; excellent. Pkt. 15 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.40, lb. \$5.



S. & W. Co.'s Winter Keeper Beet. Actually more tender and sweet when taken from storage in spring than when lifted from the ground. Description appears on page 10.

CARDOON

A vegetable that is grown somewhat like celery and served after the manner of asparagus. Sow in the open ground in May, and thin or transplant the seedlings so that they stand 2½ feet, one from the other, in rows 4 feet apart. A catch-crop such as beans, lettuce or beets may be taken between the rows. At the end of the summer, and two or three weeks before using, it is necessary to blanch the Cardoons. The heads of the plants are tied together, straw is piled against them, and the surrounding soil is then heaped up against the straw. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.

CHERVIL

One ounce will sow 150 feet of drill

CULTURE.—The curled Chervil is cultivated like parsley and used for garnishing and flavoring soups and salads.

Moss Ckrl Extra. Pkt. 10c., oz. 25c., $\frac{1}{4}$ lb. 80c., lb. \$2.50.

CRESS

(Pepper Grass)

One ounce will sow 100 feet of drill

CULTURE.—Sow early in the spring. The leaves are crisp, tender, and pungent in flavor. Sow at short intervals for succession, as it soon runs to seed. **Curled, or Pepper Grass.** Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

True Erfurt Water Cress. Pkt. 15 cts., $\frac{1}{2}$ oz. 35 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$1.95, lb. \$7.

CHICORY

Witloof, or French Endive.

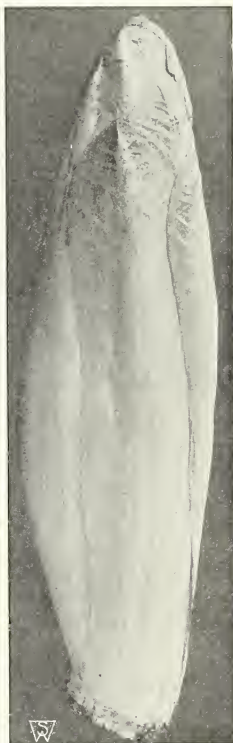
A winter salad, most delicious served with French dressing and eaten like Cos lettuce. The seed should be sown in the open ground not later than June, in drills 12 to 18 inches apart, thinning out the plants so that they will not stand closer than 3 inches. The plant forms long, parsnip-shaped roots, which should be lifted in the fall, cutting off the leaves about 1½ inches from the neck and shortening the roots by cutting off the bottoms to within 8 inches of the neck. The roots should then be planted in a trench 16 to 18 inches deep in a dark, warm cellar or under a greenhouse bench, and placed upright about 1½ to 2 inches apart, which will allow the neck of the root to come within 9 inches of the level of the trench. The trench should be filled with a light soil, and if a quicker growth is desired, this can be accomplished by a mulch of fresh manure about 2 feet deep. It requires about one month to force the roots. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

Common, or Wild (Barbe de Capucin). Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

Large-rooted Magdeburg. Cultivated for the roots. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

For Endive, see page 20.

WITLOOF ROOTS for forcing are offered on page 40



Witloof, or French Endive. From seeds sown in spring or early summer, roots are produced, and from these roots the well-known Witloof is forced during winter.

CABBAGE

One ounce will produce about 3,000 plants

CULTURE.—Sow early kinds in hotbeds in February and March, and in the open ground during April and May. Late varieties for fall and winter use should also be sown in May. Early sorts may be planted in rows 2 feet apart, with 20 inches between plants in the row; late kinds should stand at least 2 feet each way. To be well grown,

Cabbages require a deep, rich, loamy soil, but should it be too rich some late kinds may show signs of bursting. If this occurs, push the plants over to one side and so check their growth. For spring use, sow early kinds in September; when large enough to handle, transplant into a coldframe.

Savoy Cabbages are considered the most delicately flavored of all. Their cultivation offers no particular problems, but it is well to sprinkle them regularly with Slug-Shot, since the Cabbage worm is more than fond of Savoy on account of their superior quality.

EARLY AND MIDSEASON

S. & W. Co.'s Famous Early Conical.

An extremely early variety of conical form, quite distinct from any other on the market. An ideal variety for private gardens, producing solid heads sooner than other varieties and requiring less space than most kinds. **Pkt. 20 cts., 1/4oz. 35 cts., 1/2oz. 60 cts., oz. \$1.10, 1/4lb. \$4.**

Improved Early Jersey Wakefield. While this variety is not quite so early as S. & W. Co.'s Famous Early Conical, it has been long considered as the best early conical-type Cabbage which we have. The heads are hard and solid with just a few outside leaves, which are unusually thick, enabling them to stand cold weather when wintered in cold-frame. **Pkt. 15 cts., 1/4oz. 30 cts., 1/2oz. 55 cts., oz. 95 cts., 1/4lb. \$3.25.**

Charleston, or Large-Type Wakefield. Retains all the characteristics of the Improved Early Jersey Wakefield with the added advantage of greater size. **Pkt. 15 cts., 1/4oz. 30 cts., 1/2oz. 55 cts., oz. 95 cts., 1/4lb. \$3.25.**

Copenhagen Market. The best of all early Cabbages. Stands longer without bursting than other early sorts. Everyone familiar with the Cabbage knows the old and popular Danish Ballhead, the best of all the late Cabbages. This new extra-early variety, ripening with Charleston Wakefield, also originated in Denmark, and is as good, in its class, as the old favorite Danish Ballhead. The stem is short, the head round and solid. When ready for cutting, Copenhagen Market is the heaviest of the extra-early varieties, and if left until fully mature, frequently weighs 8 to 10 pounds. The leaves are small, compact and close to the head, so it will stand close planting. The inside is fine-grained, tender, pure white and compact. A leader for the home-garden and market. **Pkt. 20 cts., 1/4oz. 35 cts., 1/2oz. 60 cts., oz. \$1.10, 1/4lb. \$4.**

Early Spring. A new extra-early Cabbage, with a round, flat head, coming in with the Early Jersey Wakefield, and yielding one-third more on the same space of ground than any other extra early. Heads are of uniform size and are very solid when young. **Pkt. 15 cts., 1/4oz. 30 cts., 1/2oz. 55 cts., oz. 90 cts., 1/4lb. \$3.**

Succession. A splendid second-early, round-headed sort, with enormous heads of exceedingly tender quality. **Pkt. 15c., 1/4oz. 30c., 1/2oz. 55c., oz. 90c., 1/4lb. \$3.**

Early Summer. Pkt. 10 cts., 1/4oz. 35 cts., oz. 55 cts., 1/4lb. \$2.

Early Flat Dutche. Pkt. 10 cts., 1/4oz. 35 cts., oz. 55 cts., 1/4lb. \$2.

Improved Jersey Wakefield Cabbage

LATE CABBAGES FOR WINTER STORAGE

Danish Drumhead. Averages much larger size than the Ballhead; is about two weeks earlier; fine-grained and sweet-flavored; the best Cabbage for winter use. **Pkt. 20 cts., 1/4oz. 35 cts., 1/2oz. 60 cts., oz. \$1.10, 1/4lb. \$4.**

Large Late Flat Dutch. One of the most reliable in cultivation for winter use; produces immense heads of the finest quality; splendid keeper. **Pkt. 10 cts., 1/4oz. 35 cts., oz. 55 cts., 1/4lb. \$2.**

Autumn King. We believe this to be one of the finest strains of Cabbage ever offered. It produces regular, even heads of enormous size. **Pkt. 10 cts., 1/4oz. 35 cts., oz. 60 cts., 1/4lb. \$2.25.**

RED CABBAGES

Mammoth Rock Red. This is by far the best, largest and surest-heading Red Cabbage ever introduced. The plant is handsome, with numerous spreading leaves. The head is large, round, very solid. **Pkt. 15 cts., 1/4oz. 30 cts., 1/2oz. 55 cts., oz. 90 cts., 1/4lb. \$3.**

Red Zenith. (See Novelties, page 2.) **Pkt. 20 cts., 1/4oz. 35 cts., 1/2oz. 60 cts., oz. \$1. 1/4lb. \$3.50.**

SAVOY CABBAGES

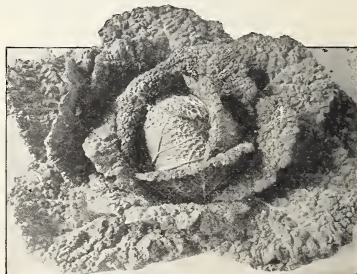
Early Dwarf Ulim. A small, quick-growing variety for early use. **Pkt. 15 cts., 1/4oz. 30 cts., 1/2oz. 55 cts., oz. 95 cts., 1/4lb. \$3.25.**

American Drumhead Savoy. None of the late-growing varieties can begin to equal in flavor this sort for family use; heads large. **Pkt. 15 cts., 1/4oz. 30 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.75.**

Early Cone Savoy. (See Novelties, page 2.) **Pkt. 20 cts., 1/4oz. 35 cts., 1/2oz. 60 cts., oz. \$1.10, 1/4lb. \$4.**

PE-TSAI, CHINESE or "CELERY" CABBAGE

Pe-Tsai produces beautiful, crisp, celery-like heads that somewhat resemble Cos lettuce. **Pkt. 10 cts., 1/2oz. 25 cts., oz. 45 cts., 1/4lb. \$1.70, 1lb. \$6.**



American Drumhead Savoy Cabbage

CARROT

One ounce will sow
100 feet of drill

CULTURE.—To produce the finest crop, the land should be thoroughly manured the previous season; forked roots will result if the seed is sown on freshly manured soil. Sow the early sorts in March and April, in drills 1 inch deep and 14 inches apart; thin out to 4 inches. For main crop sow in May or beginning of June. Care should be taken, at all times, to see that soil is firm over the seeds, either by means of the feet, roller, or garden drill.

BEST EARLY KINDS

Early French Forcing. The earliest variety and the one largely grown for forcing purposes. It makes a small, almost globe-shaped root of an orange-red color. Pkt. 15 cts., oz. 35 cts., ¼lb. \$1.25, lb. \$4.
Early Half-Long Scarlet Nantes. The skin is smooth, flesh red, and without any core or heart. It is excellent for forcing, and for fine quality and perfect shape can hardly be surpassed. Pkt. 10 cts., oz. 30 cts., ¼lb. 95 cts., lb. \$3.25.

Oxheart, or Guerande. It is intermediate between Half-long and Horn varieties, and perfectly distinct. The shape is nearly oval and the color and quality all that can be desired. Pkt. 10 cts., oz. 25 cts., ¼lb. 80 cts., lb. \$2.50.

Selected Chantenay. A very splendid type of the half-long, stump-rooted Carrot. Averages 5½ to 6 inches in length, broad at the neck, narrowing gradually to a blunt end. The flesh is rich orange-red, free from core, tender, fine flavored, and of excellent table quality. Pkt. 10 cts., oz. 20 cts., ¼lb. 65 cts., lb. \$2.

Early Scarlet Horn. Favorite for early crop but not large. Considered a good, general-purpose, all-season variety, since, sown late in the season, the roots are firm enough for winter storage. Sometimes used for forcing. Pkt. 10 cts., oz. 25 cts., ¼lb. 80 cts., lb. \$2.50.

S. & W. Co.'s Melting Marrow. (See Novelties, page 2.) Pkt. 15 cts., oz. 40 cts., ¼lb. \$1.25, lb. \$4.

LATE SORTS

Particularly Suitable
for Winter Use

Selected Danvers. A handsome, cylindrical-shaped Carrot of good size and stump-rooted. It is of a rich, dark orange color, grows to large size, is smooth, and has little core. It is a first-class Carrot for all soils, yields a greater weight per acre than any other variety, and is more easily harvested than the old long varieties. This selected stock we are now offering has been specially grown for market-gardeners and is sure to give satisfaction. Pkt. 10 cts., oz. 20 cts., ¼lb. 65 cts., lb. \$2.

S. & W. Co.'s Improved Long Red Surrey. A great improvement on the various types of Long Orange Carrot obtained by a careful selection, for successive years, of the best-formed and deepest-colored roots. It is larger, better-flavored, of a deeper orange color, and more certain to produce a crop than any type of long Carrot; flesh very sweet and tender; very productive, and never becomes hard or woody at the heart. The roots grow very regular and smooth; they are of good size, being from 6 to 8 inches in length and 2 inches in diameter at the top, tapering gradually from the shoulder to the tip of the roots. In color, shape or size, this is the ideal sort for market-gardeners' late crop. Pkt. 10 cts., oz. 30 cts., ¼lb. 90 cts., lb. \$3.

Selected Long Orange Improved. One of the most desirable for either garden or field culture; it grows to a large size, fair specimens averaging 12 inches in length and 3 inches in diameter at the top. Pkt. 10 cts., oz. 25 cts., ¼lb. 80 cts., lb. \$2.50.

S. & W. Co.'s New Red Intermediate. This is certainly the best main-crop Carrot. It is one of the most uniform in shape that we know, and where the soil is favorable, it will always grow clean and free from side roots. The core is small and very tender, and there is no indication of woody character at any stage of its growth. It is also entirely free from any coarse, rank flavor so common with many sorts. For private purposes it is ideal, and its yielding capacity is enormous, which, with its handsome color and fine appearance, makes it invaluable to truckers. Pkt. 10 cts., oz. 25 cts., ¼lb. 80 cts., lb. \$2.50.

TWO CARROTS FOR PRIZE-WINNING

Exhibition Chantenay, Exhibition Danvers. Two fine strains of these standard varieties that have been specially grown and selected for exhibition purposes. We refer our patrons to page 2 for description and prices.

Grow More Root Crops. There is a wealth of satisfaction in being able to go to your root cellar or "pit" in the garden during the winter months and dig up vegetables that sell on the market at 10 to 25 cents for a bunch of five. Their liberal use is most essential to our physical welfare. And they are so easy to grow that they may play quite a part in reducing the cost of living in the household of anyone enjoying the advantages of a small garden.

Selected
Danvers
Carrot

Selected
Chantenay
Carrots

CAULIFLOWER

One ounce will produce
about 3,000 plants

CULTURE.—Sow the first week in May and prick out on a rich piece of ground; transplant in July. For wintering under glass sow in the second and last weeks in September; transplant thickly into a cold pit or frame; give plenty of air in mild weather, and cover up well when conditions are severe. Again sow in February in a hotbed and transplant in April. For Cauliflower the ground should be well prepared by trenching, incorporating at the same time a good share of rotten manure. Select new ground, if possible, as Cauliflower rarely succeeds on soil which has been cropped year after year with other kinds of vegetables. Plant in rows 20 inches apart and 2 feet between the rows. To be successful with this vegetable, rich soil and abundant moisture at all stages of development are absolutely essential. Cauliflower does not form solid heads in hot, dry climates.

The Best Early Cauliflower. S. & W. Co.'s Best of All.

The easiest grown and surest heading Cauliflower offered today. In habit the plant is very dwarf, stocky, and erect. It has very few outer leaves and, as a consequence, the young Cauliflower plants may be planted less than 2 feet apart each way. All that is necessary is to select suitable soil, when every plant will form a large, solid, perfect head of the finest table quality and of handsome appearance. **Pkt. 25 cts., 1/2oz. \$1, 1/4oz. \$1.75, 1/2oz. \$3.25, oz. \$6.**



S. & W. Co.'s Best of All Cauliflower



Early Snowball. An all-the-year-round Cauliflower, being suitable alike for forcing, for spring use out-of-doors, and for latest fall crops

Early Snowball. This wonderful, sure-heading variety is of characteristic dwarf habit, the outer leaves being small, hence it is particularly adapted to growing under glass during winter and spring. Snowball is the most popular Cauliflower grown in America today, and the S. & W. strain is used so largely by commercial growers because of the solidity and purity of its head, its large size, and its uniform reliability. **Pkt. 20 cts., 1/2oz. 70 cts., 1/4oz. \$1.30, 1/2oz. \$2.50, oz. \$4.50.**

Danish Dry Weather. Especially adapted to sections subject to dry seasons. The heads grow to a large size, are very solid, pure white and of delicious flavor. It will prove valuable for growing in the southern states, where the climate is hot and long seasons of dry weather are experienced. **Pkt. 20 cts., 1/2oz. 55 cts., 1/4oz. 95 cts., 1/2oz. \$1.60, oz. \$3.**

Early Dwarf Erfurt. This Cauliflower is an extra-early sort, of dwarf habit, and desirable for forcing or planting in the open ground. **Pkt. 20 cts., 1/2oz. 65 cts., 1/4oz. \$1.20, 1/2oz. \$2.25, oz. \$4.**

Autumn Giant. This is a larger and later type than the above varieties. It is popular in South America and the warmer parts of this country, though many growers in this section also find that it suits their requirements. Autumn Giant is tall and sturdy, needing in consequence more room to develop than the early types. **Pkt. 10 cts., 1/2oz. 40 cts., 1/4oz. 60 cts., oz. \$1.**

Suggestions for Soil Improvement

Plow under a green crop for Cauliflower and other plants that need added humus in the soil. It will retain plant-food, hold moisture, and is the best adjunct to—or substitute for—animal manure. Do not allow even the smallest amount of land to remain idle, but sow a cover crop as soon as a space becomes available, preferably allowing the cover crop to stand over the winter, and plowing or digging it under in the spring.

Suitable crops to plant for turning under, used either alone or in combination, are:

	Quantity per acre when sown alone	Quantity 25 by 25 ft. (625 sq. ft.)	Price subject to market changes			
			Lb.	10 lbs.	100 lbs.	
SPRING SEEDING						
Crimson Clover.....	20 lbs.	1 lb.	\$0 25	\$2 25	\$20 00	
Spring Vetch.....	100 lbs.	2 lbs.	\$5 20	00	18 00	
			Qt.	Pk.	Bus.	
Spring Rye.....	2 bus.	1 qt.	\$0 20	\$1 25	\$4 25	
SUMMER SEEDING						
Soy Beans.....	2 bus.	1 qt.	30	1 75	6 00	
Cowpeas, Whippoorwill.....	2 bus.	1 qt.	25	1 50	5 00	
Japanese Buckwheat.....	1 bus.	1 qt.	20	1 00	3 00	
FALL SEEDING						
Winter Rye.....	2 bus.	1 qt.	20	1 25	4 00	
Winter Wheat.....	2 bus.	1 qt.	20	1 25	4 00	
			Lb.	10 lbs.	100 lbs.	
Winter or Hairy Vetch.....	100 lbs.	2 lbs.	\$0 30	\$2 75	\$25 00	

CELERY

One ounce will produce 3,000 plants

CULTURE.—Sow the seed in a coldframe or dry border as early as the ground can be worked, in drills 8 to 10 inches apart, covering the seed $\frac{1}{2}$ inch deep. When fairly out of the seed-leaf, they may be transplanted to another bed or thinned out to 5 or 6 inches apart, and allowed to grow until wanted for transplanting out into the beds or trenches. Early in July is the proper time to set out the plants in the trenches, or as soon after early July as possible. Rows or double rows should be 3 feet apart and the plants set about 8 inches apart in the row. As the plants grow, they should be earthed up to blanch them, care being taken not to let the earth get into the heart of the plant. For keeping over the winter, they can be banked up with earth and covered over with litter to protect from frost where they have grown, placing boards on top to keep out the rain.

EARLY SELF-BLANCHING VARIETIES

New Golden Plume is fully described on page 3. Pkt. 25 cts., 5 pkts. \$1.

Paris Golden Self-Blanching. (Grown in France by the originator.) This strain of Celery somewhat resembles the White Plume variety, but is much superior. It is entirely free from the green type and does not grow soft or pithy as most strains of Self-Blanching do. Rich golden yellow, solid, and a splendid Celery for family or market-gardeners' use. Pkt. 20 cts., $\frac{1}{2}$ oz. 55 cts., oz. \$1, $\frac{1}{4}$ lb. \$3.50, lb. \$12.

Improved White Plume. One of the most popular, because it is not necessary to bank up as with other Celeries. It is tender and of the very best flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 35 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$2, lb. \$7.50.



Paris Golden Self-Blanching Celery

Columbia. An exceptionally fine early variety, which for size and shape is unsurpassed. A dwarf, stocky variety, of a rich yellow color, similar to Golden Self-Blanching. Of a delightfully crisp and nutty flavor. Pkt. 15 cts., $\frac{1}{2}$ oz. 45 cts., oz. 80 cts., $\frac{1}{4}$ lb. \$2.50, lb. \$8.

WELL-KEEPING WINTER VARIETIES

New Easy-Blanching. The easiest of all Celeries to blanch and as good a keeper as any late sort, though quite an early sort to mature. The flesh is crisp and brittle, the flavor particularly attractive. New Easy-Blanching combines ease of cultivation, early maturity, high quality and good keeping properties. Pkt. 20c., $\frac{1}{2}$ oz. 75c., $\frac{1}{2}$ oz. \$1.40, oz. \$2.50, $\frac{1}{4}$ lb. \$8.50.

Perfection Heartwell. The finest and largest of the winter sorts, either for the family or market-garden. The heart is golden yellow, and its crisp tenderness and delicious flavor are unequaled. Pkt. 15 cts., $\frac{1}{2}$ oz. 55 cts., oz. 90 cts., $\frac{1}{4}$ lb. \$3, lb. \$10.

Giant Pascal. A deep green selection from the Golden Self-Blanching Celery. The stalks are very large, thick, solid and crisp. It has a fine, nutty flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 35 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$2, lb. \$7.50.

Improved Golden Heart. The heart, when blanched, is a rich golden yellow. Pkt. 10 cts., $\frac{1}{2}$ oz. 35 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$2, lb. \$7.50.

Covent Garden Red. A splendid dark rose variety; large and of nutty flavor. Pkt. 15 cts., $\frac{1}{2}$ oz. 55 cts., oz. 90 cts., $\frac{1}{4}$ lb. \$3, lb. \$10.

CELERIAC (Turnip-Rooted Celery)

A variety of Celery with turnip-shaped roots, which are white-fleshed, tender and possess the flavor of Celery stalks.

Large Smooth. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.



Celeriac may be served cooked or as a salad



New Easy-Blanching may be whitened in a shorter time than any other Celery will blanch up, in fact, in cold storage. It keeps better than most late varieties.

SUGAR CORN

One pound will plant 200 feet of drill or 200 to 300 hills

CULTURE.—Plant for succession of crops every three weeks, from April to July, in hills 3 feet apart each way, and six seeds in a hill; cover about half an inch; thin out to three plants. If wanted by mail, add 5c. per $\frac{1}{2}$ lb., 10c. per lb., 15c. per 2 lbs. to the prices listed.

NOTE.—The American Seed Trade generally has adopted the central system of pricing Corn, Beans, and Peas. We therefore offer by weight instead of measure. One pound of Corn is equal to about $1\frac{1}{2}$ pints; 2 pounds to about $1\frac{1}{2}$ quarts; the average weight of a bushel of Sweet Corn is 45 pounds.

EARLY SORTS

Aristocrat. An early white variety growing 4 to 5 feet high, with heavy 12-rowed ears measuring 8 to 10 inches long. The flavor is particularly fine, and the grains are large and meaty. Aristocrat is suitable for both the private and market-grower. It impressed us favorably at our trial-grounds, and, in consequence, we recommend it with every confidence. Pkt. 15 cts., $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 2 lbs. 95 cts., 5 lbs. \$2.35, 15 lbs. \$6.95.

Early Mayflower. Is fully a week or 10 days earlier than White Cory; and when we say that in size of ear, tenderness and sweetness of the kernels it is very noticeably superior to White Cory, we think we have said enough to indicate that the variety has distinct merits. The ears are long and well filled from tip to butt with large, tender, fine-flavored, white kernels. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Golden Bantam. Perhaps the sweetest Corn grown; the standard for quality by which others are judged. Plant attains a height of only 3 to 4 feet, usually bearing two or more ears to the stalk. The ears are compactly filled with kernels which when ready for the table are cream-yellow. Golden Bantam is one of the hardest varieties of Corn grown, therefore it can be planted with safety earlier than other varieties. This characteristic also adapts it to localities having cool summer weather, a continuous supply being maintained by successive plantings. (See illustration of a typical ear.) Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Metropolitan. Combines the three essentials of a good Sugar Corn, namely, earliness, productiveness, and unusually superior flavor. The 10-rowed ears are 8 to 9 inches long and they are crowded with tender, melting grains. In our opinion the best early white Corn. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Howling Mob. Is ready for use only 3 to 5 days later than the extra-early Cory when both are planted at the same time, but the ears are much larger in size, while the grains are much whiter and sweeter. As an early variety of large size, we cannot too highly praise Howling Mob. $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 2 lbs. 95c., 5 lbs. \$2.35, 15 lbs. \$6.95.

Golden Rod. A staunch, tall-growing variety, yielding two large ears to each plant. The bright golden color of the ear makes it good to look upon, and it is as good as it looks. $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 2 lbs. 95 cts., 5 lbs. \$2.35, 15 lbs. \$6.95.

White-Cob Cory. A standard first-early variety. For a quick-growing sort the ears are large, and they are well filled with medium-sized grains. A favorite with the market-grower for his earliest crop. $\frac{1}{2}$ lb. 25c., lb. 40c., 2 lbs. 75c., 5 lbs. \$1.85, 15 lbs. \$5.45.

Crosby's Early. Standard early sort; ears good size; fine quality. $\frac{1}{2}$ lb. 20 cts., lb. 30c., 2 lbs. 55c., 5 lbs. \$1.35, 15 lbs. \$3.95.

Black Mexican. Very sweet and of fine flavor; grains black. $\frac{1}{2}$ lb. 25c., lb. 40c., 2 lbs. 75c., 5 lbs. \$1.85, 15 lbs. \$5.45.

De Lue's Golden Giant. (See Novelties, page 4.) Pkt. 25c., $\frac{1}{2}$ lb. 65 cts., lb. \$1.25, 2 lbs. \$1.75, 5 lbs. \$4.



Golden Bantam. The standard for quality by which others are judged



Earliness, productiveness, and superior flavor are combined in Metropolitan Sugar Corn

EUROPEAN CORN BORER

Our Seed Corn is grown in the west, in territory that is free of this pest; our customers may therefore plant our seed with the fullest confidence.

SUGAR CORN, LATE SORTS

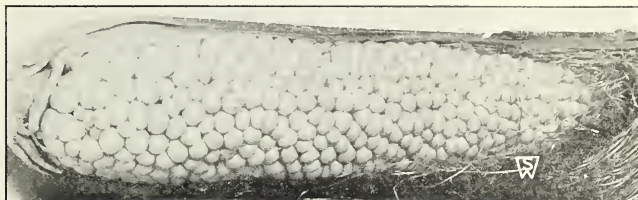
Country Gentleman. Retains its delicate flavor and tenderness even when a little old, as the ears are encased in a heavy husk, which tends to keep the ear "in the milk" for several days longer than other varieties. The cob is unusually small and the pearly white kernels of great depth. **Pkt. 10c., ½ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.**

Stowell's Evergreen. Now recognized everywhere as a standard variety, both for home use and market, and is the general favorite. The ears are of large size, grains deep, exceptionally tender and sugary, and have the advantage of remaining longer in the green state than any other. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best of all late sorts. **Pkt. 10 cts., ½ lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, 15 lbs. \$4.70.**

Extra-Early Evergreen. Ten days earlier than the standard variety. ½ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Early Mammoth. Very large and tender; similar to the Standard Mammoth variety, but much earlier. ½ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

Late Mammoth. Immense ears and very sweet. ½ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.



Country Gentleman is the "All meat" Corn. Its cob or core is smaller, and its grains are deeper than those of any other Corn

COLLECTIONS OF SUGAR CORN

Our conception of the most reliable and sweetest varieties is represented in these Collections. They are prepared during November and December before our real spring selling season commences. We are thus able to give you the benefit of lower operating costs, and the purchase of these Collections is thus a real economy, the prices of the Collections being sensibly under the total cost were each sort purchased separately. The object of the Collection is defeated if changes are made, and we request that you do not ask us to make alterations.

The following four varieties are included in the assortment:

**GOLDEN BANTAM
STOWELL'S EVERGREEN**

**METROPOLITAN
COUNTRY GENTLEMAN**

We suggest that sowings of each of these varieties be made every two weeks from May 10 to July 15. This will ensure a continuous supply of delicious Sweet Corn from the latter part of June through until frost.

An explanation may be in order as to the meaning of the word "late" as applied to Sweet Corn and other vegetables. It does not mean that the variety should be sown late; it means that it takes longer to grow from seed than "early" sorts. It is quite the correct thing to sow "late" varieties early, and it is good gardening to sow "early" sorts late, the speed with which they mature enabling them to be used at a date when so-called "late" varieties would not have time to produce a crop.

COLLECTIONS:

One pkt. each of the above varieties,
35 cts. postpaid.

½ lb. each of the above varieties, 85 cts.

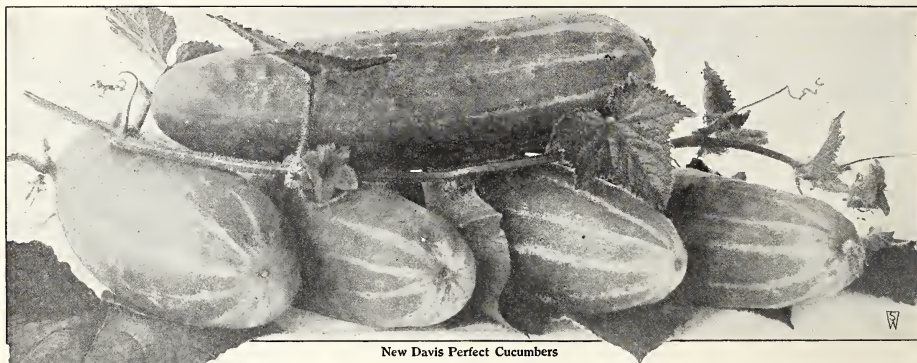
1 lb. each of the above varieties, \$1.35.

2 lbs. each of the above varieties, \$2.50.

5 lbs. each of the above varieties, \$6.35.



Stowell's Evergreen Corn



New Davis Perfect Cucumbers

CUCUMBER

One ounce will plant
about 50 hills

CULTURE.—The first planting should be made early in May, on partly spent hotbeds; inverted sods form an excellent medium for both planting on and carrying the young plants to their permanent location, or small paper pots can be used. Such plants are usually ready for transplanting to the open ground in from three to four weeks, and are seldom troubled with the striped bug. Transplanting, when practicable, should be done in the evening, into hills 4 feet apart each way. Thin out to about four plants to a hill when established. The seed may be planted in hills late in May, thus giving a succession. For pickles, plant during the last two weeks of June. Bug Death, or an infusion of hellebore powder in water, will destroy the striped bug.

New Davis Perfect. In color, a dark, glossy green; shape slim and symmetrical, with an average length of 10 to 12 inches. (See illustration.) Quality fine, as the seeds are very soft when fit for table use. Flesh tender and brittle, and of good flavor. **Pkt. 10 cts., oz. 25 cts., 1/4 lb. 80 cts., lb. \$2.50.**

Improved Early White Spine. The fruits are nearly cylindrical in form, slightly pointed at the ends, perfectly smooth and of deep, rich coloring marked with distinct white lines at the blossom end. Will retain its color longer after pickling than most varieties, and is splendid as a table cucumber. **Pkt. 5 cts., oz. 15 cts., 1/4 lb. 50 cts., lb. \$1.50.**

Cool and Crisp. An excellent pickling or slicing cucumber, of good size, tender and crisp; very early and exceedingly prolific. **Pkt. 10 cts., oz. 25 cts., 1/4 lb. 80 cts., lb. \$2.50.**

New Klondyke. This is a hybrid sort of the White Spine type which holds its dark green color longer than most other sorts. Averages 6 to 7 inches in size; ends are quite square and it is about 2 inches thick. Its extreme earliness, combined with its prolific and hardy qualities, make it a very desirable variety for either market or private use. An excellent sort for slicing. When small, this variety is also an excellent pickling sort. **Pkt. 10 cts., oz. 25 cts., 1/4 lb. 80 cts., lb. \$2.50.**

Extra-Long Green. A well-known standard variety about 1 foot in length, of most excellent quality, and when young makes the best of pickles. When ripe it is the best of any for sweet pickles. Vines vigorous and very productive. Our strain of this valuable sort is unsurpassed by any, being carefully selected from the best fruits. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

Japanese Climbing. Well adapted for pickling, as well as for slicing for salads. The great advantage of this variety lies in the fact that it can be trained on a pole or fence. The Cucumbers are a foot or more in length, with a smooth, dark green skin which turns brown and is netted when ripe. **Pkt. 10 cts., oz. 30 cts., 1/4 lb. 90 cts., lb. \$3.**

Fordhook Pickling. One of the best and most prolific varieties for producing pickles of medium size for both home or market use. Vines are very vigorous, yielding a large number of fruits; remaining in strong, healthy, growing condition longer than any other known variety. The skin is very tender and remains so when pickled. **Pkt. 10 cts., oz. 25 cts., 1/4 lb. 80 cts., lb. \$2.50.**

Early Green Prolific. This sort can be used for slicing, but is best for pickling on account of its uniform small size. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 55 cts., lb. \$1.75.**

CUCUMBERS FOR GROWING UNDER GLASS

S. & W. Co.'s Improved Telegraph. By special arrangement, we have secured a selected strain of this variety, and have no hesitancy in saying we consider it equal to if not better than all other varieties. A very dark green type which we have found from numerous tests to be the finest strain obtainable. **Pkt. (10 seeds) 25 cts.**

S. & W. Co.'s Forcing White Spine

This is a particularly refined type of the well-known outdoor White Spine. It is similar in appearance, but is larger. It grows freely under glass, and its advantage over Telegraph and similar forcing types is that it bears earlier, is more prolific, and is more robust. It will thrive under conditions where Telegraph will not, and it is therefore of more simple cultivation. **Pkt. (20 seeds) 25 cts.**

EGGPLANT

One ounce will produce about 1,000 plants

CULTURE.—One of the most delicious vegetables grown, yet it is not cultivated to the extent it would be if its superior table qualities were better known. Sow during March, in a warm hothed in light rich soil, or fill a shallow box with a similar mixture and after sowing place in the full light of a warm window. Transplant or thin so that the young plants stand 3 inches each way or, better still, put out individually into small pots. Always keep the young plants warm and do not plant out until settled fine weather has arrived. They need to stand 2 feet apart each way when put outside where they are intended to fruit.

New York Improved Spineless. This variety is grown more than any other and is a favorite for both market and family use. The fruit is large, round, of a rich deep purple-black. In spite of their size they are produced freely and continuously. The stems and calyx of this variety are entirely free from spines. **Pkt. 15 cts., 1/2 oz. 40 cts., oz. 70 cts., 1/4 lb. \$2.50.**

Long Purple. In this type the fruits are 6 to 8 inches in length and 2 to 3 inches in diameter. In color they are a handsome dark purple. The variety is early and prolific. **Pkt. 15 cts., 1/2 oz. 40 cts., oz. 70 cts., 1/4 lb. \$2.50.**

Black Beauty. Is very much on the style of New York, but it is darker in color and has a higher polish. It is also broader and thicker. **Pkt. 15 cts., 1/2 oz. 45 cts., oz. 75 cts., 1/4 lb. \$2.75.**

Florida High-Bush. In this variety the oval-shaped fruits are kept well off the ground and they are more perfect in consequence. Their color is lighter than other sorts, but the flavor is quite refined. In habit the plant grows a foot or more taller than New York Improved



New York Improved Eggplant, much reduced. Fruits average 7 inches deep and 5 inches in diameter.

Spineless. **Pkt. 10 cts., 1/2 oz. 35 cts., oz. 60 cts., 1/4 lb. \$2.**



Long Purple Eggplant. A very prolific and early sort

COLLARDS, GEORGIA

One ounce will produce about 3,000 plants

A cabbage-like plant with a large, loose head. In the South it is widely used as a cooked vegetable, being prepared in a manner similar to spinach. The seed may be started under glass during March and transplanted, being treated like early cabbage. For a late crop, sowings in the open ground during July or August are usual. Plants should be at least 3 feet apart each way. Collards are used as a substitute for cabbage in those sections where cabbage cannot be raised. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

CORN SALAD

One ounce will sow 150 feet of drill

CULTURE.—Seed may be sown thinly in drills 18 inches apart in early spring, and sowings may be made

later for succession as required, although in hot weather it is difficult to obtain satisfactory results, hence late summer and early fall seedings are preferred. The young plants from the latest sowings are covered with a light mulch and wintered exactly as spinach is often managed. Rich soil is necessary. Among artificial fertilizers to be recommended is S. & W. Co.'s General Garden Fertilizer. This may be dug into the ground before seeding and later hoed frequently between the rows during growth, thus mixing it thoroughly with the soil.

Large-leaved. Tested seed of high vitality. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**



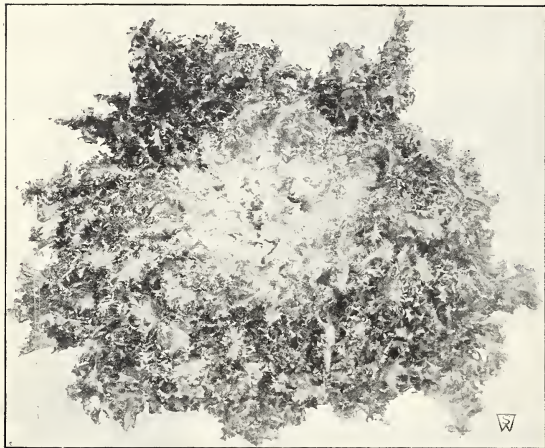
Corn Salad. Widely used in winter in place of Lettuce

DANDELION

One ounce will sow about 100 feet of drill

CULTURE.—Sow early in the year in drills 1 foot apart, covering the seed no more than 3/4 inch. Thin the plants to stand 4 inches apart. Dandelion may be blanched like endive, for salad purposes, or it may be sown later in the season, plants covered lightly with salt hay, and the following spring they will be fit for use as early greens.

French Garden. **Pkt. 15 cts., 1/2 oz. 25 cts., oz. 45 cts., 1/4 lb. \$1.50, lb. \$5.**



Green Curled Rose-Ribbed Endive. The most attractive of all autumn and winter salads

ENDIVE, continued

Green Curled. The hardiest and most vigorous variety. The leaves are bright green, finely cut and crinkled, giving the plant a handsome appearance. Blanches easily a creamy white. Pkt. 10 cts., oz. 25 cts., 1/4 lb. 80 cts., lb. \$2.50.

White Curled. A variety which blanches readily and is very tender when young. It is similar to Green Curled, but the leaves are naturally of a light golden tint, and it is not essential that they be tied up to blanch them for table use. The flavor is very good. Pkt. 10 cts., oz. 30 cts., 1/4 lb. 90 cts., lb. \$3.

Broad-leaved Batavian (Escarolle). The leaves are broad and thick, more or less twisted and waved, with round ends and are of a bright deep green with a nearly white midrib. They are much larger in size, thicker and more fleshy than those of the preceding sorts. The inner leaves form a fair head which blanches a creamy white. In its natural state Escarolle forms an excellent salad with an appetizing piquancy. It may be gathered fresh from the ground well into winter, thus furnishing salad at a season of the year when it is most welcome. Escarolle is also frequently served as spinach, when its flavor and health-giving properties render it of high value. Pkt. 10 cts., oz. 25 cts., 1/4 lb. 80 cts., lb. \$2.50.



Earliest Selected Kohlrabi. Useful alike for forcing and for general culture

ENDIVE

One ounce will sow 200 feet of drill

CULTURE.—One of the most attractive of all autumn and winter salads. It is commonly known in restaurants as Chicorée, and is especially refreshing when served as lettuce with plain French dressing. Sow seed from middle of June till last of August. When the plants are fully grown, tie all the outside leaves together over the heart, to blanch the inner leaves, which will take about a week. Do not tie up when the leaves are wet, as they will then decay.

Green Curled Rose-Ribbed (Self-blanching). Quicker to mature and more upright in growth than the ordinary type. Grown 6 inches apart, in good, rich soil, the plants quickly crowd one another to such an extent that the dense centers of the plants blanch themselves. The flavor is refined to a degree. Pkt. 15 cts., oz. 40 cts., 1/4 lb. \$1.25, lb. \$4.



Escarolle (Broad-leaved Endive). Used widely as a salad and also like spinach

KALE

One ounce will produce about 300 plants

CULTURE.—Sow in May in shallow drills; when large enough, transplant singly into rows, allowing 24 inches between the plants.

Dwarf Green Curled Scotch. This withstands frost better than cabbage. In fact, it is not at its best until cold weather has set in. The leaves are curled like fine parsley. As boiled "greens," Scotch Kale is tender and of remarkably fine flavor. Pkt. 15c., oz. 30c., 1/4 lb. \$1, lb. \$3.25.

Siberian Kale or Sprouts. Is not so densely curled as the Scotch, but is also hardy and yields a heavy bulk of produce. Widely known as "German greens." Seeds should be sown in September and treated like spinach; it is fit to cut early in spring. Pkt. 10 cts., oz. 25 cts., 1/4 lb. 75 cts., lb. \$2.75.

Dwarf Brown Kale. A beautiful, curled variety, with spreading foliage; very hardy and of fine flavor. Pkt. 15 cts., oz. 30 cts., 1/4 lb. \$1.05, lb. \$3.50.

KOHLRABI

One ounce will sow about 200 feet of drill

CULTURE.—This is a very delicious vegetable, and is increasing in popularity rapidly; combines the good qualities of the turnip and cabbage, but excels both in nutritive and productive qualities. Cooked the same as turnips, they are very tender and palatable. Sow in spring in rows 18 inches apart, and thin away the plants to 6 inches.

Earliest Selected (for frames). A variety with few and small leaves; can be planted very closely; very useful for general culture and indispensable for forcing. Pkt. 15 cts., oz. 40 cts., 1/4 lb. \$1.40, lb. \$5.

Early White Vienna. The earliest and best for either market or family use. Pkt. 10c., oz. 30 cts., 1/4 lb. 90 cts., lb. \$3.

Early Purple Vienna. Similar to the preceding, except in color, which is of a bluish purple. Pkt. 10 cts., oz. 25 cts., 1/4 lb. 80 cts., lb. \$2.50.

LEEK

One ounce will sow about 100 feet of drill

CULTURE.—Sow the seed very early in a seedbed in a sheltered place, if possible. When plants are about 6 inches long transplant them to trenches 6 inches deep, with very rich soil at the bottom. Fill up the trenches as the plants grow, and later draw soil up to them. As a result you will have fine, large Leeks blanched half a foot long, which may be kept all winter if dug up with the roots on and stored in moist sand in the cellar.

S. & W. Co.'s Exhibition. This is by far one of the best, long, blanched varieties we have ever offered. Seed furnished several prominent exhibitors in vegetable classes this past fall was pronounced quite the best they have grown. **Pkt. 25 cts., 5 pkts. \$1.**

Large American Flag. A large-growing type, desirable in every way. On account of its dependability and ease of culture, is the most widely used variety for both family and market use. **Pkt. 10 cts., oz. 30 cts., 1/4 lb. 90 cts., lb. \$3.**

Musselburgh. (Winter.) A very hardy variety of extra-large size. The leaves are fan-shaped, of a dark green color. The edible stem is 6 to 8 inches long and 3 inches in diameter. **Pkt. 10 cts., oz. 30 cts., 1/4 lb. 90 cts., lb. \$3.**



Martynia. The immature pods are used for pickles

MARTYNIA

The foliage of this plant actually is very decorative, and it may be used to advantage for the center of flower-beds or in mixed flower borders. The thick, succulent stems bear lilac-purple flowers, and these are followed by curved seed-pods. The pods are gathered when young and are pickled sweet, in the same manner as cucumbers. Sow the seed when frost is over, and thin the plants or transplant them to stand 3 feet or more apart; or, if preferred, sowings may be made under glass early in the season and the plants afterward planted in the open ground. **Pkt. 10 cts., oz. 30 cts., 1/4 lb. 90 cts., lb. \$3.**



American Flag Leek. The standard variety for general use

MUSTARD

One ounce will sow 75 feet of drill

CULTURE.—Sow frequently through the spring, in drills from 8 to 12 inches apart.

Fordhook Fancy. A variety possessing densely crested and cut leaves, and having, in consequence, a handsome feathered appearance. Cooked and served as spinach, the flavor is inviting, while the plant possesses healthful tonic properties that should ensure a place for it in every garden. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

Giant Southern Curled. The plant grows 3 feet tall, and the broad succulent leaves are cut and frilled. The variety makes excellent boiled "greens." **Pkt. 5 cts., oz. 15 cts., 1/4 lb. 40 cts., lb. \$1.25.**

New Chinese. Leaves twice the size of the ordinary white Mustard; stems more succulent, of deeper green; flavor pleasantly sweet and pungent. **Pkt. 5 cts., oz. 15 cts., 1/4 lb. 40 cts., lb. \$1.25.**

White London. The best variety for sandwich material and for salads, when it is used in the seedling stage but a few days after sowing. **Pkt. 5 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.**



Fordhook Fancy Mustard. A dwarf type served in the same manner as spinach, is excellent and healthful.

Three Aids to Successful Gardening

MAG-O-TITE

Protects your crops against the ravages of the root-maggot, earth-worm, and other pests. Enables you to grow successfully Radishes, Cabbage, Kale, Onions, Turnips, Cauliflower, etc. Mag-o-Tite is a powder which is mixed with the soil at seeding- and planting-time, and later sprinkled alongside your plants when growing.

PACKAGES		SACKS	
2 lbs.	\$0 40	25 lbs.	\$3 00
4 lbs.	70	100 lbs.	9 50
8 lbs.	1 25		

Purchaser pays transportation

S. & W. CO.'S GENERAL GARDEN FERTILIZER

Aids just those elements to the soil that are needed by all Vegetables and Flowers. Use at the rate of 10 pounds for a space 15 by 15 feet, or 500 pounds per acre. General Garden Fertilizer is an inoffensive powder which may be mixed with the soil before seeding and later dusted frequently between the rows during growth.

5 lbs.	\$0 60	50 lbs.	\$3 75
10 lbs.	1 00	100 lbs.	6 50
25 lbs.	2 00	Ton	95 00

Purchaser pays transportation

WHICH SHOULD BE INCLUDED WITH EVERY ORDER

BACTRELO

Supplies the nitrogen-fixing bacteria necessary for the successful growth of Beans, Peas, Sweet Peas, Alfalfa, Sweet Clover, Red Clover, Mammoth Clover, Crimson Clover, Alsike Clover, Vetch, Soy Beans, Cowpeas, Field Beans, Field Peas; also Mixed Garden crops. Separate cultures are offered for each of the above; state for which crop required.

Garden size	\$0 50
1-acre size	1 50
2-acre size	2 50
5-acre size	5 00

Charges prepaid

LETTUCE

One ounce will sow
150 feet of drill

Because the number of good sorts of Lettuce is so great as to prove bewildering to the majority of home-gardeners, we have selected for them the following, which, in our many years of experience, have never disappointed where the cultural directions were followed.

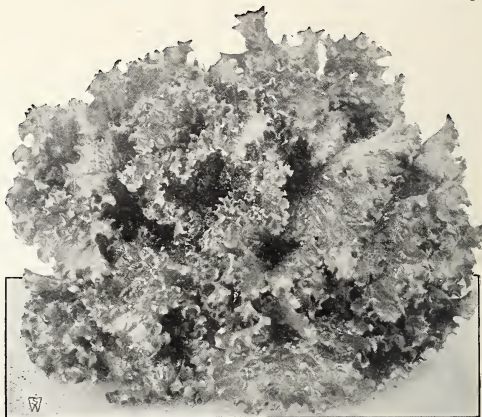
CULTURE.—About the middle of March sow either **Big Boston**, **May King**, or **Wayahead** in the hotbed. When seedlings are about 2 inches tall, transplant them a inches apart each way in a coldframe. By May 1, after properly hardening them, set out in the garden, 1 foot apart in the row, with a 2-foot path between the rows. These plants should give you firmly folded, well-developed heads by Decoration Day. As soon as the ground can be worked outdoors, plant seeds of any of the early sorts in rows, $\frac{1}{2}$ inch deep. As soon as seedlings are 3 to 4 inches tall, thin them to stand 4 inches apart in the row. Later on remove every other one and do this again until the plants finally stand 16 inches apart in the row. Then hoe between the plants as well, in order to secure good heads. After the middle of May, do not sow seeds of early kinds, but select sorts like **All Seasons** and **Iceberg** instead. Make repeated sowings of short rows to have a crisp product available constantly.

EARLY LARGE-LEAVED LETTUCES

Early Curled Simpson. A splendid curly-leaved sort. Seed sown in the coldframe about the middle of March and transplanted about the middle of April will supply the table from May until the middle of June. **Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.75.**

Black-seeded Simpson (Loose Head). A popular curly-leaved sort, similar to Curled Simpson, except that it is larger in size. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.75.**

Grand Rapids. There is no better forcing variety among the curly-leaved sorts than the **Grand Rapids**, and it is quite as good for outdoor culture as many others. **Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.**



Grand Rapids Lettuce

Large, beautiful leaves; crisp and tender. **Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb.**

TEN FINE LETTUCES

A suggestion in one of our prominent garden periodicals has given Ten Fine Lettuces for the amateur gardener to grow, whose garden space is small, and where crisp Lettuce is desired from April to October.

Golden Queen. A small variety of compact habit, forming yellowish green heads. Seed may be sown about the middle of April outdoors, giving Lettuce in about six weeks, just a few days before **May King** and about a day or so after **Wayahead**.

Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

Wayahead. Large and fine. Very similar to **May King** described below. If seed is sown about the same time as **Golden Queen**, it will likely mature a few days sooner, but usually makes a looser head. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$3.**

May King. Unquestionably one of the best all-round, early, outdoor Lettuces. Does remarkably well in cold or wet weather, forming solid heads of bright green, the edges of the center leaves tinged reddish brown; the heart is clear yellow and of ideal flavor. If sown the same time as **Wayahead**, **May King** will be ready about four to five days later.

This variety is sown in August for fall use. **Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.**

California Cream Butter. The largest and latest of the early varieties of this type named in this list. If sown the same time outdoors as the three preceding, will mature about ten days to two weeks later. **Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.**

Big Boston. A splendid head Lettuce, perhaps the most generally and favorably known of the ten mentioned here. Forced in frames to great extent in the spring and is also planted in August for late crop. Does not do well for midsummer use, but as a fall or early spring Lettuce is one of the best. Large heads; center crisp and of fine flavor. **Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.**

Green-Leaved Big Boston (Black Seeded). By far the most heat-resisting sort of this type. The plants are of a uniformly darker shade of green, grow more compactly, and stand several days longer than other strains of **Big Boston**, before running to seed. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.**

All-Seasons. May be described as a black-seeded Deacon. A good heat-resister. If sown early in May will produce fine, buttery Lettuce from the latter part of June to the latter part of July. **Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.**

Iceberg. Lettuces resist the heat better. Has strong center ribs, which bend toward the heart of the plant, keeping it thoroughly blanched. Repeated sowing from early May, of this sort and **New York** or **Wonderful**, at intervals of three weeks, should supply the table well up to September 1. **Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.**

New York, or Wonderful. This variety grows considerably larger than **Iceberg** and matures about ten days later. The outer foliage is a distinct, dark green as compared with the yellowish green of **Iceberg**. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.**

Crisp as Ice. Perhaps the least known of the three remarkable crisp-head varieties. The hardest of all the Lettuces, sometimes remaining in the garden until Thanksgiving. Heads somewhat globe-shaped; dark green and bronze; the heart, however, is splendid. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.**



May King Lettuce

STUMPP & WALTER CO.'S SELECTED SEEDS



Big Boston. Everybody's Favorite for outdoor use and forcing

Unrivaled Summer. Forms uniformly large heads similar to Big Boston but lighter in color. Ready about a week earlier than Big Boston when sown at same time. May be sown throughout the season. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

A MINIATURE LETTUCE

S. & W. Co.'s Tom Thumb.

This miniature sort is just what the gardener wants for greenhouse or frame culture. The small, firm, cabbage-shaped heads are of excellent buttery quality, while the leaves are dark green and very crumpled. The owner of the small garden likes the tiny plants, which occupy but little space. Outdoors it is suitable for spring and fall use. The plant is practically all head. Pkt. 15 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.



Paris White Cos Lettuce, or Romaine. Crisp, tender, and sweet

OTHER GOOD HEAD LETTUCES

Mammoth Black-Seeded Butter. A very large type. The heart is of fine flavor and melting. Mammoth Black-seeded Butter is advised for late spring and summer planting, as it is a good hot-weather variety, being one of the last to "bolt" to seed. Pkt. 10c., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

Hanson Improved. The round head is large and well-formed, and is so solid it blanches almost white. The outer leaves are curled and shining, giving the Lettuce a very handsome appearance. This variety is recommended because of its absolute reliability. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

Mignonette. A densely heading curled Lettuce of medium size and one that is very solid, compact, and hard. It is medium brown in color, with a dark greenish tinge. Mignonette is very popular in many sections on account of its high quality and its wonderful resistance to heat, it being one of the last varieties to run to seed. Pkt. 10 cts., oz. 22 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

Black-seeded Tennisball. Forms a close solid hard head of a buttery texture; not over large in size and of a medium green color. The leaves are crumpled. Tennisball enjoys wide popularity, chiefly because it is a sure header during spring, summer and fall. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

Salamander Perfected. An excellent summer variety. Grows to large size, with tightly folded leaves covering the center, which blanches a light golden. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.



Thousands of rows of vegetables and flowers are grown to maturity on the S. & W. Co.'s Trial-Grounds, and every variety sold by the Company is represented. Our view shows a portion of the Lettuce Trials 1919

COS or ROMAINE LETTUCE

This is of upright growth, quite distinct, and is considered by most growers to be the most refined type of Lettuce. When about a week short of maturity, it is usual to draw the outer leaves together and tie them, blanching the inner heart and greatly enhancing its noted crispness and fine flavor. Experts for some years have been developing plants which naturally tend toward a close, compact habit, and the necessity for tying is not so great with the following three varieties as with the older forms. In spite of this it is always worth the trouble to tie up at least some of one's Cos Lettuces.

S. & W. Co.'s Giant White. Although this fine Cos Lettuce attains a large size, the immense heart is crisp, tender and excellent; habit quite self-folding. A splendid early sort. Pkt. 25c., $\frac{1}{2}$ oz. 60c., oz. \$1.

Paris White Cos, or Romaine. A splendid sort for summer use, leaves quite erect. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

Trianon Self-closing Cos. A large, strictly self-folding type with long, narrow, oval leaves. The oval head is tender and crisp. Trianon is several days earlier than the above varieties, making it of value to the commercial man. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

MUSKMELON

One ounce will sow
about 80 hills

CULTURE.—Sow the seed in April under hand glasses, and in the open air in May in hills 6 feet apart each way. Plant in each hill from 8 to 10 seeds, covering half an inch deep. When the plants have produced their rough leaves, thin out to three plants. The hills should be prepared by trenching in rotten manure and sand. As soon as the plants make their appearance above ground, dust them with soot, charcoal dust or Bug Death, to prevent the ravages of the bug.

GREEN-FLESHED KINDS

S. & W. Co.'s Selected Stock, Rocky Ford.

This famous variety is the finest early green-fleshed melon in cultivation. The fruits are remarkably uniform in size, weighing from 1 1/4 to 1 1/2 pounds each. They are quite thick meated, with very thin rinds; skin light green, regularly ribbed and heavily netted, turning to a golden yellow as the melon ripens. Flesh light green in color, firm but melting, and of uniformly fine flavor. **Pkt. 10 cts., oz. 25 cts., 1/4 lb. 50 cts., lb. \$2.50.**

Honey Dew. This variety, with its clear light yellow skin, is becoming quite familiar in the best markets. No other melon is quite so sweet as this, and it is not surprising that it should become so popular. The flesh is green, very thick, and unlike some Melons it ripens uniformly to the rind. **Pkt. 15c., oz. 40c., 1/4 lb. \$1.40, lb. \$5.**

Montreal Improved Nutmeg. This variety grows to a large size. It is beautifully netted and deeply ribbed. Its flesh is light green, melting, and of exquisite flavor. The best melon in cultivation. Our stock is true and was grown under glass from selected fruit by the most successful Canadian shipper. **Pkt. 25 cts., 1/2 oz. 90 cts., oz. \$1.50.**

Jenny Lind. Small, but very early; green flesh. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

Extra-Early Hackensack. Large, round and of fine quality; a standard variety. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

GOLDEN or ORANGE-FLESHED SORTS

Admiral Togo. This is an orange-fleshed Netted Gem, or Rocky Ford. We have developed in the Admiral Togo a small Muskmelon with the very thick, orange flesh and splendid quality of the Defender, and possessing the characteristic netting, shape, size, and shipping quality of Netted Gem or Rocky Ford. Combining all the good qualities of those two fine varieties, we believe the Admiral Togo is an ideal table and basket melon. **Pkt. 10 cts., oz. 30 cts., 1/4 lb. 90 cts., lb. \$3.**

Selected Emerald Gem. The skin is a rich deep green, and smooth; flesh salmon color and of delicious flavor. A very early and prolific variety and one that is very extensively grown for family use. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**



S. & W. Co.'s Selected Stock, Rocky Ford. The most popular green-fleshed Muskmelon

Hoodoo. A new orange-fleshed variety, ideal as a shipping melon and of the very finest quality. Vine vigorous, remarkably blight-resisting and very productive. Fruits uniformly of medium size. Netting exceptionally fine and dense, extending practically over the entire surface. Rind thin yet very firm, so that the melons arrive in perfect condition in distant markets. Flesh very thick, firm, highly colored, of fine texture and delicious flavor. **Pkt. 10 cts., oz. 25 cts., 1/4 lb. 80 cts., lb. \$2.50.**

Osage or Miller's Cream. This is a large-fruited, dark-skinned Melon, the appearance of which is much enhanced by the shallow grey netting which covers it so evenly. The very thick red flesh is of pleasing flavor. A very popular main-crop variety. **Pkt. 10 cts., oz. 30 cts., 1/4 lb. 90 cts., lb. \$3.**

Tip-Top. The most productive melon known; good for early or late, having a sweet, juicy, fine flavor; solid flesh (but not hard) and eatable to the outside coating. The fruit is of large size, nearly round, evenly ribbed and moderately netted. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

Paul Rose. This new red-fleshed Melon is sweet and highly flavored, and in it are combined all the good qualities of the Netted Gem and Osage, the varieties from which it originated. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

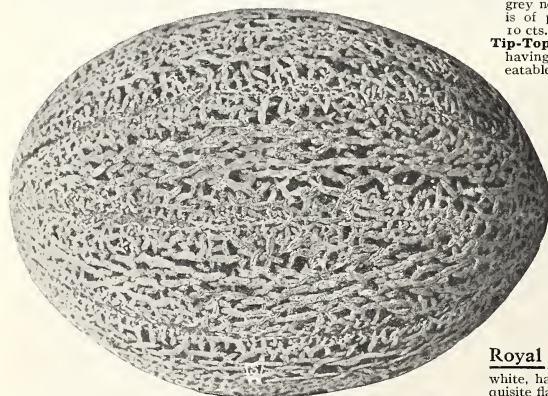
Cassaba Muskmelon

To the lover of Muskmelons, it is a matter of disappointment that the varieties ordinarily grown will not keep for any length of time after ripening. Cassabas, however, *will keep*, and they are true winter melons. Their cultivation is similar to that of muskmelons, except that they are, perhaps, a little more exacting in the matter of soil and weather conditions. The skin of the Cassaba is firm and smooth, and the golden flesh is melting, sweet and of high quality. **Pkt. 15 cts., oz. 35 cts., 1/4 lb. \$1.25.**

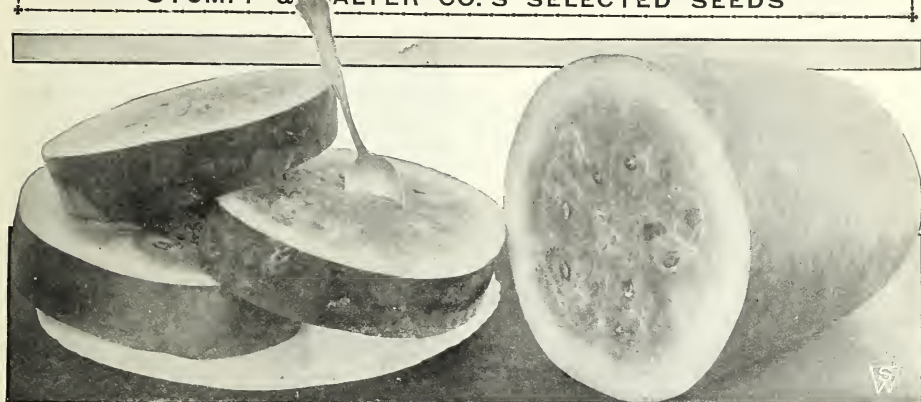
FORCING MELONS

Royal Jubilee. A splendid, oval, green-fleshed melon, raised at the Royal Gardens, Windsor. Skin almost white, handsomely netted. The flesh is tender and of the most exquisite flavor. **Pkt. of 25 seeds, 50 cts.**

Blenheim Orange. Pkt. 25 cts.



Admiral Togo. An ideal orange-fleshed Melon



Kleckley Sweets, The sweetest of all Watermelons

WATERMELON

One ounce will plant
about 50 hills

CULTURE.—Treat the same as muskmelon, except that they should be planted 8 to 10 feet apart, according to variety
Cole's Early. A most delicious and productive variety for the family garden, succeeding in northern states, where melons were never matured before. The flesh is of a beautiful bright red color, crisp and extremely delicate in texture—that granulated, cool, sparkling appearance that is so captivating to the eye; in flavor it is lusciously sweet and refreshing, no pithiness or stringiness. **Pkt. 10 cts., oz. 20 cts., ¼lb. 65 cts., lb. \$2.**

Kleckley Sweets. The sweetest of all the Watermelons. Fine-flavored and grained, tender meat. Fruits are large size; rind very thin and green, very brittle; flesh scarlet and firm; and a variety everyone should grow. **Pkt. 10 cts., oz. 20 cts., ¼lb. 65 cts., lb. \$2.**

Early Fordhook. The quickest-maturing, large-fruited Watermelon grown, and therefore suitable for the more northern parts of the country. The fruits are short and "stubby" in form, though large. The dark green skin is occasionally flecked with faint stripes of a lighter color, and the bright scarlet flesh is crisp and of such splendid quality as to warrant our recommending it to our customers. It is a variety which ships well. **Pkt. 10c., oz. 30c., ¼lb. 90c., lb. \$3.**

Tom Watson. A large, long melon, with a tough rind. Vines vigorous and productive; flesh rich red, sweet, and tender. **Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. \$1.50.**

Citron. Round and handsome; used for preserves. **Pkt. 10 cts., oz. 20 cts., ¼lb. 65 cts., lb. \$2.**

MUSHROOM SPAWN

Ten bricks will spawn
10 feet square

CULTURE.—"I have the fresh horse droppings saved until a sufficient quantity accumulates to fill the beds, occasionally turning the manure and watering it slightly if it appears not to be moist enough. Then I leave the mass for three days, after which I again turn it, adding more water if necessary. After turning, I firm the manure, and in three days again repeat the operation. The most particular part is to get the manure moist enough and yet not too moist. After the second turning the manure is generally ready for the bed. My beds are only 10 inches in depth. I press in the manure very firmly and cover slightly with salt hay or straw, which tends to retain the moisture in the bed. When the temperature of the bed drops to 85°, I insert 'Pure Culture' Spawn in pieces about the size of an egg, 1 foot apart one way and 9 inches the other. I insert the Spawn just deep enough to cover with a little manure. I keep the temperature of the house between 55° and 60°, and occasionally dampen the walls, etc., as required; also occasionally 'dew' over the hay."

cover the bed with warm water. If the Spawn runs properly, a white, frothy substance will be observed in about ten days or two weeks. I then remove the hay and cover with one-inch thickness of sifted soil, preferably good pasture loam, firming it down. Mushrooms will generally appear in from six to eight weeks. I always have a little finely sifted soil on hand, and fill all the holes up after gathering the Mushrooms—that is, the holes made by removing the stalks. With good care the bed will last three months. Should it appear dry, water thoroughly with water heated to 90°, in which a pinch of nitrate of soda dissolved will be found very beneficial. In conclusion, I may say I think most of the failures in mushroom-growing arise from the manure being too dry."—JOSEPH ROBINSON.



Bed of S. & W. Co.'s Pure Culture Mushroom Spawn

American Pure Culture Spawn

Ten pounds will spawn 10 square feet

This type produces larger Mushrooms than the English, coming into bearing somewhat earlier, and continuing to crop for a long time. This spawn is produced by selecting spores from individual specimen Mushrooms, and is propagated and transferred to the bricks of manure, which, when planted, produce Mushrooms all of one type.

Per Brick (about 1 ½ lbs.) 35c. **Per 10 Bricks,** \$3.25.

Per 25 Bricks, \$7. **Per 100 Bricks,** \$25.

English Mushroom Spawn. As most growers of Mushrooms recognize the superiority of the American Pure Culture over the English, we have decided to discontinue handling the latter.

ONIONS

One ounce for 100 feet of drill; 5 to 6 pounds per acre

CULTURE.—Sow in rich, sandy soil, in drills 1 foot apart, as early as possible in the spring, cover with fine soil and firm well, either with roller or back of spade. When plants are strong enough, thin out to 3 or 4 inches. The finest Onions are produced by sowing the seed in a hotbed early in February and transplanting seedlings to the open ground 6 inches apart.

MILD, WHITE VARIETIES

S. & W. Co.'s Southport White Globe. Yields abundantly, producing handsome and uniformly globe-shaped bulbs. The flesh is firm, fine-grained and of mild flavor. To produce the beautifully white Onions, so much sought in every market, one must, first of all, have good seed. Second, grow them well on rich land. Third, exercise great care in harvesting and curing the crop. In Southport, they "cord" up the Onions in long rows, the bulbs on the inside, and cover with boards so that the bulbs in the open air are well protected from rain or dew, which would be sure to discolor them. We have, by years of careful selection and breeding, developed a strain which has no equal in uniformity and beauty of shape and color. **Pkt. 10 cts., 1/2oz. 25 cts., oz. 40 cts., 1/4lb. \$1.25, lb. \$4.50.**

White Pickling. When matured, the tops die down, leaving beautiful and perfect little bulbs. The color is pure white, flavor mild and delicate, perfectly adapted for pickling and table use; and makes a pretty bunch Onion, especially if grown by the transplanting method. A valuable variety. **Pkt. 15 cts., 1/2oz. 30 cts., oz. 45 cts., 1/4lb. \$1.50, lb. \$5.**

White Portugal, or Silverskin. A mild-flavored variety, used extensively for pickles. The Onions are tender and altogether fine. **Pkt. 10 cts., 1/2oz. 25 cts., oz. 40 cts., 1/4lb. \$1.25, lb. \$4.50.**



White Portugal Onions

LEADING YELLOW KINDS

S. & W. Co.'s Southport Yellow Globe. The enormous quantities of this Onion annually sent to market prove its popularity, and it is more largely grown than any other sort. We can confidently claim superiority for our strain of seed; it produces large and uniformly spherical bulbs with very small necks. The largest diameter is below the center of the bulb. The color is a rich orange-yellow. Keeps splendidly. **Pkt. 10 cts., 1/2oz. 25 cts., oz. 40 cts., 1/4lb. \$1.35, lb. \$4.75.**

Ideal Yellow Globe. An Onion of the Southport type, but, as the result of very careful selection over a period of years, representing all that a general-purpose Onion should be. We recommend other and larger sorts for exhibition purposes, but where the requirements are high quality, mildness of flavor, maximum keeping qualities, and maximum yield over a given area, here is the Onion for you to grow. **Pkt. 15 cts., 1/2oz. 30 cts., oz. 45 cts., 1/4lb. \$1.50, lb. \$5.**

Yellow Globe Danvers. Of more globular shape than the Southport; a splendid keeper, producing well-rounded bulbs about 2 1/2 inches in diameter; skin light golden yellow; flesh white, crisp, and mild in flavor. One of the best-known Onions, and recommended strongly for the general crop. **Pkt. 10 cts., 1/2oz. 20 cts., oz. 30 cts., 1/4lb. \$1, lb. \$3.50.**

EXTRA LARGE-GROWING KINDS

S. & W. Co.'s Selected Ailsa Craig. This Onion continues to be one of the largest, when stock is good and if sown early. It is a very handsome, oval-shaped variety with pale straw-colored skin. Two of these Onions have been exhibited in England that weighed 8 pounds, and in some parts of Massachusetts it attains a weight of 3 pounds 4 ounces. For exhibition it is unexcelled, and a more shapely bulb than the Prizetaker. To attain its largest size it should be sown in the greenhouse in January and transplanted to the open in April. For a large Onion it is a splendid keeper, and for those who like an Onion raw we recommend it highly on account of its mild flavor and crystal wax-like appearance. **Pkt. 20 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.50, lb. \$9.**

Gigantic Gibraltar. See Novelties, page 4. **Pkt. 15 cts., 1/2oz. 35 cts., oz. 60 cts., 1/4lb. \$2, lb. \$7.**

Prizetaker. Grows uniform in shape; is of immense size, measuring from 12 to 16 inches in circumference, while under special cultivation specimen bulbs have been raised to weigh from 2 to 3 pounds each; its pure white flesh is fine-grained, mild, and delicate in flavor. **Pkt. 15 cts., 1/2oz. 30 cts., oz. 45 cts., 1/4lb. \$1.50, lb. \$5.**

Collection

One packet each, three varieties Southport Globe Onions,

RED, WHITE, YELLOW, for 25 cents.

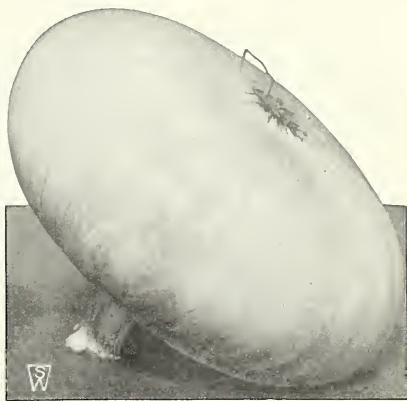


S. & W. Co.'s Southport Globe Onions

LONG-KEEPING RED ONIONS

S. & W. Co.'s Southport Red Globe. Very similar to Wethersfield in color, having a deep red skin, but differing in shape, being almost a perfect globe. Size large, flesh fine-grained, mild and tender. **Pkt. 10 cts., 1/2oz. 25 cts., oz. 40 cts., 1/4lb. \$1.25, lb. \$1.50.**

Large Red Wethersfield. This is the standard red variety, and a favorite Onion in the East, where immense crops are grown for shipment. Bulb large, somewhat flattened, oval shape; skin deep purple-red; flesh purplish white, moderately fine grained and stronger flavored than any of the other kinds. Very productive, the best keeper, and one of the most popular for general cultivation. It is more inclined to form large necks if planted on unsuitable soil than the Danvers, but is the best variety on poor or dry soil. **Pkt. 10 cts., 1/2oz. 20 cts., oz. 30 cts., 1/4lb. 90 cts., lb. \$3.**



Large Red Wethersfield Onion

ONION SETS

The Reason for Planting Onion Sets

Our Globe Onion Sets will produce Onions much earlier than by sowing the seeds, which frequently permit the planter to sow another crop on the land the same year. For green or bunch Onions, sets will produce a crop in half the time it takes to raise them from seed. Plant Onion Sets and Tops near the surface in drills 12 inches apart and 4 inches in the rows.

	Qt.	1/2pk.	Pk.
White Onion Sets	\$o 35	\$1 30	\$2 50
Yellow Onion Sets	30	1 10	2 00
Red Onion Sets	30	1 10	2 00
White Multiplier Onion Sets	40	1 50	2 75

	Qt.	1/2pk.	Pk.
Yellow Potato Onion Sets	\$o 30	\$1 10	\$2 00
White Potato Onion Sets	30	1 10	2 00
Shallots	40	1 50	2 75
Egyptian Top Sets	30	1 10	2 00

Garlic Sets

One pound will plant
200 feet of drill

CULTURE.—Garlic is used for a variety of flavoring purposes. Break up the sets or bulbs into the smaller scale-like portions and plant these 6 inches apart in rows 1 foot apart. As soon as the leaves have turned, the crop is matured, and may be harvested like the onion.

Garlic Sets. Lb. 50 cts., 5 lbs. \$2.25.

OKRA, or GUMBO

One ounce will sow about
100 feet of drill

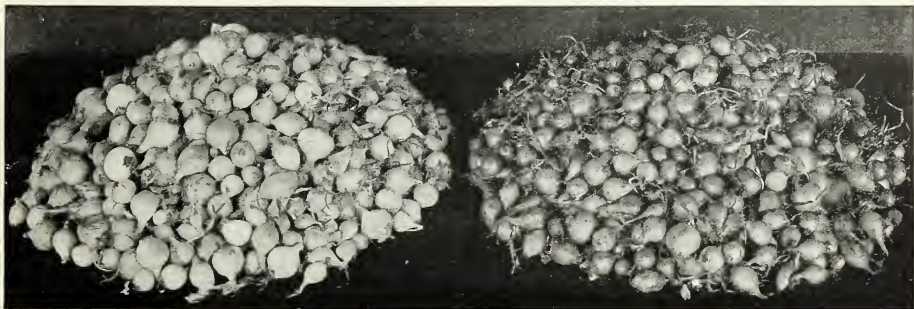
CULTURE.—Sow when the weather is warm and settled, in drills 1 inch deep and 4 feet apart; thin out to 12 inches apart in the drills. Okra requires 9 or 10 weeks from seed to maturity. Usual sowing period for New York, May 25 to June 10.

Lady Finger. A new variety from the South, very productive; extra-long, slender pods of fine round form. **Pkt. 5 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.25.**

Kleckley's Favorite. One of the best varieties. **Pkt. 5 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.25.**

Long Green. Long ribbed pods; very productive. **Pkt. 5 cts., oz. 15 cts., 1/4lb. 35 cts., lb. \$1.**

White Velvet. Very distinct in appearance; pods are perfectly round, smooth and of a white velvety appearance and of superior flavor. **Pkt. 5 cts., oz. 15 cts., 1/4lb. 50 cts., lb. \$1.50.**



Globe Onion Sets

PARSLEY

One ounce will sow about 150 feet of drill

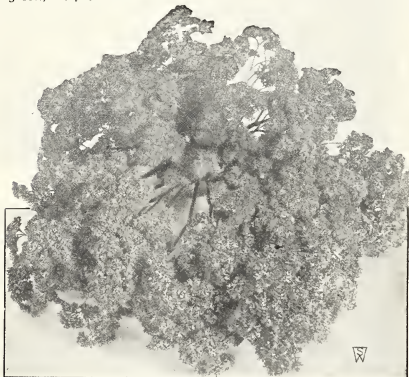
CULTURE.—Parsley requires a rich, mellow and deep soil. Soak the seed for a few hours in tepid water, and sow early in the spring in drills 1 foot apart and $\frac{3}{4}$ inch deep. Thin out the young plants to 4 inches. Hamburg Parsley should be treated the same as carrots.

Extra Double Curled. A standard market variety, used for garnishing and flavoring. The leaf is finely cut and curled and a vivid green in color. Handsome. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Champion Moss Curled. A particularly beautiful type. As its name implies, a bed of this has the appearance of fine moss. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

Exhibition Curled. See Novelties, page 4. Pkt. 25 cts., 5 pkts. \$1.

Fern-leaved. This is a distinct variety, very different from the foregoing. We have the true type. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.



Extra Double Curled Parsley



Champion Moss Curled and Plain Parsley compared

PARSLEY, continued

Plain. Known widely as Italian Parsley. Used for flavoring. (See illustration.) Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Hamburg or Rooted. The roots of this type resemble parsnips. They are served similarly or used for flavoring soups. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

PEANUTS

CULTURE.—These require similar soil conditions to garden corn, and they take about as long to grow. Remove the outer shell carefully, taking care not to damage the kernels, and sow the latter in drills 2 $\frac{1}{2}$ feet apart and 1 $\frac{1}{2}$ inches deep. Allow 9 inches between one "nut" and the next in the row.

Improved Spanish. Though small, this is a quick-growing sort and is therefore particularly suitable for northern gardens. Pkt. 15c., lb. 45c.

California Long Red. Larger than the above but slower to mature. Plant this variety south of the latitude of New York. Pkt. 15 cts., lb. 45 cts.

PARSNIP

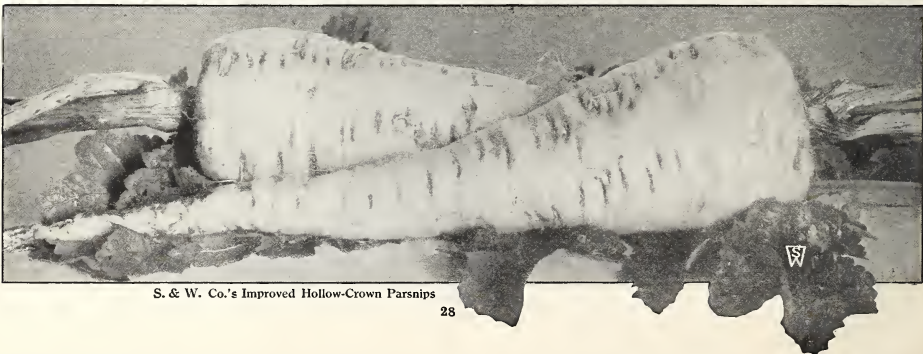
One ounce will sow about 200 feet of drill; 5 to 6 lbs. for an acre

CULTURE.—Sow as early in spring as the ground can be worked, in drills 18 inches apart, covering with fine soil to the depth of $\frac{1}{2}$ inch. The soil should be rich and deeply dug. The quality of the roots is much improved after a severe frost; in fact, they may be allowed to remain in the ground throughout the winter, as they are perfectly hardy.

S. & W. Co.'s Improved Hollow-Crown. A great improvement over the present Hollow-Crown variety; clean, well shaped and smooth. Smoothness in the root of a Parsnip is a matter of importance, as every housewife preparing it for the table will acknowledge. Excellent for table or exhibition. Pkt. 10 cts., oz. 20c., $\frac{1}{4}$ lb. 55c., lb. \$1.75.

S. & W. Co.'s New Intermediate. The root is somewhat flattened and top-shaped, about 6 inches long and 4 inches across the thickest part. It matures quickly and is therefore suitable for sowing as a second crop, following spinach or lettuce; or if put in when long parsnips are sown, may be pulled soon after midsummer. Particularly suitable for shallow land which ordinarily produces mishapen or fanged root-crops. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$3.

Selected Exhibition. See Novelties, page 4. Pkt. 25 cts., 5 pkts. \$1.



S. & W. Co.'s Improved Hollow-Crown Parsnips

PEPPER

One ounce will produce about 1,000 plants

CULTURE.—Peppers are more sensitive to frost than most vegetables, and they should not be planted out until settled warm weather has arrived. The seed should be sown in a hothed, coldframe, or if of no better convenience is available, a box in a window; transplant later into rows 20 inches apart each way, and keep the soil clean and well stirred.

SEVEN SPLENDID SWEET PEPPERS

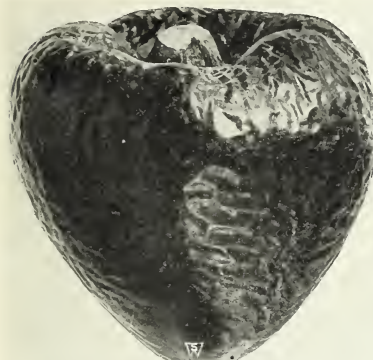
Perfection Pimiento. One of the best for the home-garden, both green and ripe. It is so smooth and uniform in shape that the skins can be easily slipped off after heating over a hot fire a few seconds or by boiling a few minutes in hot water. It can also be pared like an apple by using a sharp knife. The green Peppers can be pared best in this way. The hull or meat is from 2 to 3 times as thick as that of the Bell types, and yields about a half more edible product to the same measurement. The quality is very sweet and delicious and entirely free from pungency. In color, when ripe, it is a beautiful scarlet-red. It is very productive, yielding heavy crops until cut off by frost. This Pepper will be much sought and grown by canners for pimientos, pickles and pulp. **Pkt. 15 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.75.**

Chinese Giant. This is the standard large sweet Pepper. It is quite early to ripen and very productive for so large a variety. Productiveness may be increased by pinching the first or "king" blossoms which appear. They grow 4 or 5 inches broad at the top, and are of equal length. Quite uniform in size. The flesh is mild and unusually thick and makes an excellent salad sliced and served like tomatoes. Color green, changing to a glossy scarlet when ripe. **Pkt. 15 cts., 1/2oz. 55 cts., oz. 90 cts., 1/4lb. \$3.**

Ruby King. The handsome fruits are 4 1/2 to 6 inches long, 4 inches thick, and bright red. Ruby King is used very largely for pickles, and it is equally suited for slicing. The flavor of the fruits is mild and pleasant, with just a slight suspicion of piquancy, making them very tempting when served like cucumbers or tomatoes. (See illustration below.) **Pkt. 15 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.75.**

Large Bell, or Bull Nose. A large, early variety of pleasant flavor, though mild. This is the variety for green stuffed Peppers. Ripens into a bright red. **Pkt. 10 cts., 1/2oz. 40 cts., oz. 70 cts., 1/4lb. \$2.50.**

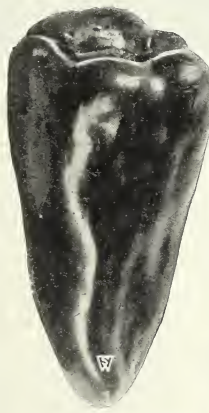
Sweet Mountain. Fruit 6 inches long by 4 inches thick, shining deep green when young and a handsome red when ripe. Flavor mild. **Pkt. 10 cts., 1/2oz. 40 cts., oz. 70 cts., 1/4lb. \$2.50.**



Perfection Pimiento. A fine variety, unique in shape and in its fine qualities

Neapolitan (Jersey Sweet; White Cap). The two qualities which this Pepper possesses are its earliness and its extraordinary yielding properties. It is an upright-growing variety, that is, its fruits grow upwards and are not pendant. They are bright red, sweet, fine, and very tender. Commercial growers favor this Pepper, and find that it is in particular demand with pickling establishments. **Pkt. 15 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.75.**

Early Dwarf Red Squash (Cheese Pepper). A sweet variety that is increasing in popularity. The pendant fruits are similar in shape and color to bright red tomatoes. The flesh is thick and mild. **Pkt. 15c., 1/2oz. 45c., oz. 75c., 1/4lb. \$2.75.**



Neapolitan. A sweet Pepper noted for its earliness and extraordinary yielding properties.

A WONDERFUL LONG SWEET PEPPER

Anaheim Chili. A long type that is classed as a sweet Pepper; it has just sufficient suggestion of pungency to make it delicious. The fruits are very meaty, measuring 7 inches or more in length, with a diameter of 1 inch. It is highly valued as a green chili, canned chili made from it is a revelation, while ripe and red, served as a salad, it is excellent. **Pkt. 15 cts., 1/2oz. 55 cts., oz. 90 cts., 1/4lb. \$3.**

TWO LONG HOT PEPPERS

Long Red Cayenne. Fruits about 4 inches long and 1 inch thick, bright red in color; very prolific; very hot. Used for pickling, both when green and when ripe. **Pkt. 15 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.75.**

Red Cluster. Bears a profusion of red clusters of very thin, pungent Peppers in an upright position. **Pkt. 15 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.75.**

A SMALL HOT PEPPER

Cherry Red. Small, round fruit, rich scarlet in color, and extremely piquant. **Pkt. 15 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.75.**



S. & W. Co. Selected Ruby King Pepper



Trial planting of Peas for succession. Gradus, Little Marvel, Sutton's Excelsior and Telephone

One pound will plant
100 feet of drill

PEAS NORTHERN GROWN

If wanted by mail, add 5 cts. per $\frac{1}{2}$ lb., 10 cts. per lb., 15 cts. per 2 lbs. to the prices listed

CULTURE.—For early crops sow as early in spring as practicable, and again every two or three weeks for a succession throughout the season up to the 1st of August. Plant in single or double rows, 4 feet apart and 2 inches deep. In dry weather soak the Peas over night before planting. In the vicinity of New York the extra-early Peas, if planted from the 15th to the last of August, will produce a medium crop for late picking when they will be found most acceptable.

Varieties marked * are wrinkled Marrows, and should be sown more thickly than the round Peas, and not until the ground has become warm, as they are more liable to rot. All wrinkled sorts are much superior in flavor to the round Peas.

EARLY SMOOTH-SEEDED SORTS

First of All, or Pedigree Extra-Early. A smooth-seeded variety that cannot be too highly recommended. In a planting where ten varieties are wanted to produce a continuous succession of Peas from June 1, this variety heads the list, and will give you Peas four or five days earlier. A splendid cropper; Peas very tender, of good flavor, and carried in long, well-filled pods. Height $2\frac{1}{2}$ feet. $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

Alaska. A round, slightly pitted, blue-seeded sort, grown largely by canners. An extremely early variety. May be planted as early as First of All. Height 24 inches. $\frac{1}{2}$ lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, 15 lbs. \$4.70.

Ameor. A hardy and heavily producing sort. Height 4 feet. $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

Eight Weeks. See Novelties, page 5. Pkt. 15 cts., $\frac{1}{2}$ lb. 35 cts., lb. 60 cts., 2 lbs. \$1.15, 5 lbs. \$2.85, 15 lbs. \$8.45.

Market Surprise. See Novelties, page 5. Pkt. 15 cts., $\frac{1}{2}$ lb. 35 cts., lb. 60 cts., 2 lbs. \$1.15, 5 lbs. \$2.85, 15 lbs. \$8.45.

EARLIEST WRINKLED SORTS

***World's Record.** See Novelties, page 5. Pkt. 15 cts., $\frac{1}{2}$ lb. 35 cts., lb. 60 cts., 2 lbs. \$1.15, 5 lbs. \$2.85, 15 lbs. \$8.45.

***Gradus, or Prosperity.** Undoubtedly one of the most valuable sorts introduced up to the present time. The vine has heavy stems, with large, light green leaves and grows about 3 feet high. It produces uniformly large pods, measuring from 4 to 4 $\frac{1}{2}$ inches in length, nearly round and well filled

with very large, handsome Peas of the finest flavor; very early, ready for picking after First of All is through, and leaves little to be desired. Height 3 feet. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

***Little Marvel.** A first-early Pea of the finest quality, better than American Wonder or Nott's Excelsior. The vines of dwarf, even growth, average 18 inches high, and are heavily set with fine pods, usually in pairs. The pods average 3 $\frac{1}{2}$ inches in length, are square at the bottom, and are well filled with quite large, deep green Peas. The Peas are ready for picking fully as early as American Wonder, but the pods are larger and the vines bear a much heavier crop. All who desire a fine crop of an early, choice variety of Peas will be delighted with Little Marvel. Begins to bear just as Gradus is at its best. Height 15 inches. Pkt. 10 cts., $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 2 lbs. 95 cts., 5 lbs. \$2.35, 15 lbs. \$6.95.

***Thomas Laxton.** A remarkably fine, early, wrinkled Pea, and we think destined to supersede Gradus. In many characteristics it resembles that excellent sort, but the pods differ in shape, and are certainly more numerous. The Peas are of extra-fine quality, tender and of a flavor not excelled by any other. It grows about 3 feet in height, but does not need brushing. Ready for picking at the same time as Sutton's Excelsior. It is a remarkably profitable market Pea, as it is always in demand and brings the best prices. Height 3 feet. $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

***Sutton's Excelsior.** A variety that calls for highest commendation; equal to Gradus in quality and considerably more productive. Ready for picking just after Gradus and Little Marvel. Height 18 inches. $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

NOTE.—The American Seed Trade generally has adopted the cental system of pricing Peas, Beans, and Corn. We therefore offer by weight instead of measure. One pound of Peas is equal to about 1 pint; 2 pounds to about 1 quart.

PEAS NORTHERN GROWN

If wanted by mail, add 5c. per 1/2lb., 10c. per lb, 15c. per 2 lbs., to the prices listed.

EARLIEST WRINKLED SORTS, continued

***Laxtonian.** A very fine dwarf early Pea. Unusually large pods, borne on long-growing, sturdy vines. Unlike many of its class, the large pods are filled with large, luscious Peas. It is ready for use about a week later than the very early sorts. The plants grow about 1 1/2 feet high, and are of a rich dark green color, which proves it to be of vigorous constitution, and this enables it to resist the extreme conditions to which Peas are subjected in many sections of the United States. 1/2lb. 30 cts., lb. 50 cts., 2 lbs. 95 cts., 5 lbs. \$2.35, 15 lbs. \$6.95.

***Early Morn.** This grand introduction maintains its position as one of the best early marrowfat Peas ever raised. Although so early, the seed should not be sown until the soil is in a fit condition to receive it in April, as it is a rapid grower. The pods are very large and well filled, and are often ready to pick several days after Gradus. Height about 4 feet. 1/2lb. 30 cts., lb. 50 cts., 2 lbs. 95 cts., 5 lbs. \$2.35, 15 lbs. \$6.95.

***American Wonder.** A very early wrinkled Pea that will bear about the same time as Little Marvel, but is not so large or prolific. Height 1 foot. 1/2lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

***Nott's Excelsior.** A splendid early sort; large cropper and still preferred by many planters on account of its prolific yielding qualities, but is now really superseded by Little Marvel. Height 14 inches. 1/2lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

MIDSEASON AND MAIN-CROP VARIETIES

***Alderman.** A distinctly different Pea in habit from those described in the Early list. On generous soils it grows to a height of 5 to 6 feet, and should be supported with brush or trellises. The pods contain seven large, elongated, dark green Peas of the highest quality, and follow in the wake of Thomas Laxton. The plants bear very profusely and the Peas bring the highest price in market. Height 5 feet. 1/2lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

***Quite Content.** One of the largest-podded Peas in existence and in season similar to Alderman. This variety is preferred by many growers to Alderman on account of its large pods. Height 5 feet. 1/2lb. 35 cts., lb. 60 cts., 2 lbs. \$1.15, 5 lbs. \$2.85, 15 lbs. \$8.45.

***Boston Unrivalled, or Telephone.** This variety is much like Alderman, with vines fully as tall, pods slightly smaller, and bears right up to the season of the very late sorts. The yield of Peas is not so great and they are not so well filled as Alderman. The Peas are very bit as tender, but darker green in color and sweet. Height 5 feet. Pkt. 10 cts., 1/2lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

***Potlach.** Really an improved Stratagem and, without a doubt, the best dwarf, extremely late Pea. Healthy bluish green vines, bearing loads of deep green pods; frequently an average of eight pods in pairs containing an average of seven fine, large Peas of superfine flavor. A continuous bearer from July 1 to 15 in most seasons. Height 2 feet. Pkt. 10 cts., 1/2lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, 15 lbs. \$5.45.

***Champion of England.** Vines grow 4 to 5 feet high. Peas of excellent quality and delicious flavor. 1/2lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, 15 lbs. \$6.20.

EDIBLE-PODDED SUGAR PEAS

Used in the same manner as wax beans

Luscious Melting Sugar. Large, broad pods, which are so brittle that they snap without any string. Height 5 feet. 1/2lb. 30 cts., lb. 55 cts., 2 lbs. \$1.05, 5 lbs. \$2.60, 15 lbs. \$7.70.

Very Dwarf White Sugar. Unusually dwarf; very similar in habit to the American Wonder. The pods are of excellent melting quality. 1/2lb. 30 cts., lb. 55 cts., 2 lbs. \$1.05, 5 lbs. \$2.60, 15 lbs. \$7.70.

Collections of Garden Peas

These collections embody our ideas of the best and most representative varieties. They are considered by experienced growers to be the most reliable sorts for both the amateur and professional gardener. We suggest that two sowings be made of each variety—the first as soon as the ground is ready and the weather is right, and the second two weeks later. The result will be a maximum yield, and the grower should be able to gather Peas daily over a period of five weeks.

The Following Five Varieties Comprise the Collections

- *Market Surprise.** A wonderful, round-seeded variety yielding in about 70 days from seed. Height 3 feet.
- *Gradus.** The standard early wrinkled Pea, yielding generally in 80 days. Height 3 feet.
- *Little Marvel.** A wrinkled sort, 1 1/2 feet high. Requires about 85 days from sowing to maturity.
- *Telephone.** The standard late tall wrinkled Pea. Produces its pods in about 90 days from seed. It grows 5 feet high.
- *Potlach.** An extremely late wrinkled variety, yielding in 95 days from sowing. Height 2 feet.

THE COLLECTIONS

	Postpaid	One pound each of above five Peas	Postpaid
One packet each of above five Peas	\$0 50	Two pounds each of above five Peas	\$2 20
			\$4 10
			\$10 00

Please do not ask us to make changes in these Collections. The fact that they are prepared in advance of our "rush" season enables us to offer them at a lower price than that of the separate varieties purchased in the usual way.



Quite Content. One of the largest-podded Peas in cultivation.



Alderman Peas

POTATOES FOR SEED

CULTURE.—Any good, well-drained, fibrous loam will produce Potatoes under right climatic conditions. For early Potatoes, which mature in eight to ten weeks from planting the soil must be particularly rich. A rich clover sod, manured and broken the year before and planted to corn, beans, peas, oats, etc., is in best shape for giving a good yield of nice, clean Potatoes. Stable manure had better be applied to the land the year before. S. & W. Co.'s Potato Manure, at the rate of up to 1,000 pounds to the acre if applied broadcast, or 400 to 600 pounds if applied mostly in the rows, may be used directly for the Potato crop. Open furrows 3 feet apart and 3 to 4 inches deep. Apply the fertilizer and run the furrower or small plow again in the furrow to mix the fertilizer with the soil and leave a mellow seed-bed. Then plant good-sized pieces, each containing not less than two or three eyes, 15 inches apart in the furrows for early Potatoes, and 18 inches apart for late ones. Return the soil with a cover, small plow or other suitable tool. Spray with Pyrox as a protection from flea beetle, potato beetle and blight. About 11 bushels, or 4 barrels, will plant an acre.

Prices subject to change without notice.

BEST EARLY POTATOES

Early White Albino. This wonderful new early Potato is a good cropper. The skin and flesh are extremely white, of exceptionally good cooking quality and very prolific, fully as early as the old Early Rose in maturing, and particularly valuable for the early market by reason of its fine shape and early maturity. The vines grow erect, and it is one of the best early varieties to withstand blight and disease. Plant this Potato early in good soil, give it good cultivation, and pleasing results will be sure at harvest-time. One grand thing in favor of this early Potato is its great keeping quality. $\frac{1}{2}$ pk. \$1.25, pk. \$2, $\frac{1}{2}$ bus. \$3.25, bus. \$5.50, bbl. \$12.

Irish Cobbler. One of the first varieties of Potatoes to be ready for market, and therefore will command a good price. The skin is creamy white, sometimes netted, which is an indication of good quality; eyes are strong, well developed, and but slightly indented. The flesh is white and of fine flavor. $\frac{1}{2}$ pk. 85 cts., pk. \$1.50, $\frac{1}{2}$ bus. \$2.50, bus. \$4.50, bbl. \$10.

Early Bovee. (Selected.) Somewhat earlier than Early Rose. A medium-sized Potato; very productive. The dwarf growth of vines permits easy cultivation, insuring a good yield. $\frac{1}{2}$ pk. 85 cts., pk. \$1.50, $\frac{1}{2}$ bus. \$2.50, bus. \$4.50, bbl. \$10.

Early Rose. (Selected.) A variety which has been grown extensively in some sections. A Potato of good size and fine quality. $\frac{1}{2}$ pk. 85 cts., pk. \$1.50, $\frac{1}{2}$ bus. \$2.50, bus. \$4.50, bbl. \$10.



Early Bovee Potatoes

BEST MAIN-CROP POTATOES

Russet. Considered the finest Potato extant. The haulm is dark green and very distinct, while the variety seems to be as near blight-proof as a Potato can be. The tubers are round to oblong, very large, and from 6 to 10 are ordinarily obtained from a hill; the flesh is pure white and the skin has a roughened russet appearance that is characteristic. Extraordinary yielder. $\frac{1}{2}$ pk. \$1, pk. \$1.75, $\frac{1}{2}$ bus. \$3, bus. \$5, bbl. \$11.

Carman No. 2. Is of perfect form, even in dry seasons, almost every Potato being of uniform size and shape, averaging nearly a pound each in weight. The skin and flesh are extremely white. $\frac{1}{2}$ pk. 85 cts., pk. \$1.50, $\frac{1}{2}$ bus. \$2.50, bus. \$4.50, bbl. \$10.

Gold Coin. A splendid main-crop variety of remarkable productiveness and finest table quality; slightly oblong form; light golden skin; flesh pure white, fine-grained; cooks very dry. $\frac{1}{2}$ pk. \$1, pk. \$1.75, $\frac{1}{2}$ bus. \$3, bus. \$5, bbl. \$11.

Green Mountain. (Selected Stock.) A late, heavy cropper of excellent quality; skin smooth and white; shape roundish flat; eyes few and shallow; a good keeper. $\frac{1}{2}$ pk. 85 cts., pk. \$1.50, $\frac{1}{2}$ bus. \$2.50, bus. \$4.50, bbl. \$10.

Sir Walter Raleigh. Enormous tubers; freely produced. They are oblong in shape, uniform in size and of fine quality. $\frac{1}{2}$ pk. \$1, pk. \$1.75, $\frac{1}{2}$ bus. \$3, bus. \$5, bbl. \$11.

PUMPKINS

One ounce will plant 50 hills

CULTURE.—Plant in April or May, among corn, or in the garden, in hills 8 to 10 feet apart, and otherwise treat in the same manner as melons.

Large Cheese. A most popular variety. Fruit flattened, the diameter being two or three times more than the length; skin mottled light green and yellow, changing to rich cream-color as it matures; flesh tender and of excellent quality. Pkt. 10c., oz. 20c., $\frac{1}{4}$ lb. 55c., lb. \$1.75.

Sweet, or Sugar (New England Pie). The fruits are medium to small in size, of a bright orange color, and in shape are round, flattened at the ends. The flesh is of remarkably good cooking quality, very thick, and deep yellow in color. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.75.

Winter Luxury. This we recommend as one of the best pie Pumpkins; an excellent keeper and enormously productive. It is very finely netted and in color it is a golden russet. Pkt. 10c., oz. 25c., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Mammoth Tours. This Pumpkin is of interest on account of its enormous size. The skin is pale grey-green in color, marbled deeper green, smooth and slightly ribbed. The flesh is yellow and of fair cooking quality. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.75.

King of the Mammoths. Recommended where size is the chief consideration—200 pounds or more being not an unusual weight for a single specimen. The fruit is flat-round; the skin is yellow, as also is the thick flesh. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.75.

Connecticut Field. Grown for stock purposes. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.



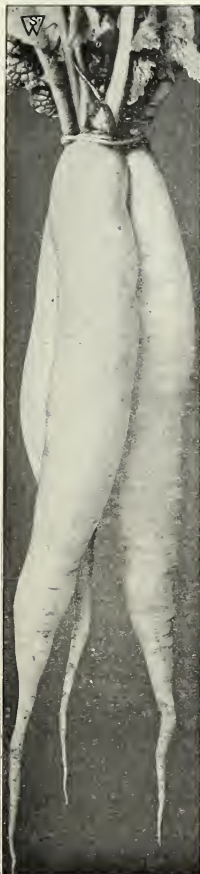
Large Cheese Pumpkin

RADISH

One ounce will sow
about 100 feet of drill

As early in the spring as the soil can be worked, sow any of the early round or olive-shaped varieties in rows, $\frac{1}{2}$ inch deep, with a foot to 15 inches between the rows. Sow thinly. If seedlings appear closer than one inch apart, they should be "thinned out." Hoe frequently to encourage rapid growth which insures high quality. The early spring sorts serve the purpose until June 15, when Icicle and Cincinnati Market are at their best. The summer sorts are good until frost from repeated planting. The winter varieties should be pulled after light frosts and stored like beets. Both summer and winter Radishes should be "thinned" to stand from 4 to 6 inches apart in the row. After the middle of May, do not sow the flat, round, and olive-shaped spring sorts. Sow White Icicle, Cincinnati Market, and Chartier. These resist hot weather well. About July 1, sow the winter varieties.

EARLY ROUND AND OLIVE-SHAPED VARIETIES



White Icicle Radishes

Early Scarlet Turnip. Within 25 days from date of sowing it perfects handsome, flat roots, $\frac{3}{4}$ inch in diameter by $\frac{1}{2}$ inch deep through. **Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.**

Sparkler. Of rich carmine-scarlet color, with a very pronounced tip of the purest white. The roots, even when fully developed, are solid, crisp and sweet, and remain fit for use as long as the coarser kinds. It is equally well adapted for forcing in frames or growing in the open ground. While the leaves are small, they are sufficiently large for bunching. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.**

Early Scarlet Globe. The best general-purpose variety in this class, perfecting handsome roots, as illustrated alongside, in from 28 to 35 days after sowing. Of distinct shape, brilliant color, short-leaved, crisp and white; an excellent variety for forcing. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.**

White Box. An almost globe-shaped sort, slightly flattened, with pure white skin and crisp flesh. Unlike most other early sorts, it remains in fine table condition until quite overgrown. Ready in from 35 to 40 days. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.75.**

Olive-shaped Scarlet. Flesh bright and crisp. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.**

Olive-shaped White. **Pkt. 10c., oz. 25c., $\frac{1}{4}$ lb. 80c., lb. \$2.50.**
French Breakfast. The olive-shaped counterpart of Cooper's Sparkler among the early round sorts, as described above. A favorite sort; mild and crisp. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.**

BEST EARLY LONG SORTS

White Icicle. The "best all-round" Radish for all purposes in the home-garden; also fine for market and splendid for growing under glass. Within 30 days from sowing seeds, the roots attain a length of 4 to 5 inches, by $\frac{3}{4}$ inch in diameter at the thickest part. The skin is thin, the flesh crisp and mild. It remains in fine table condition longer than any other early sort, regardless of shape. (See illustration.) **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.**

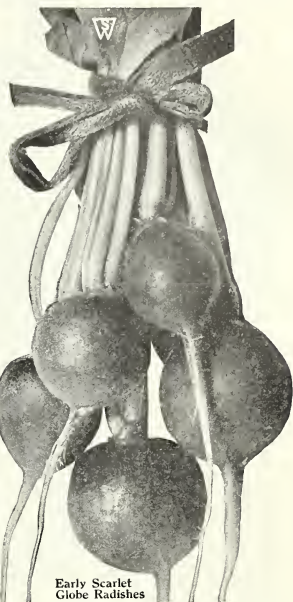
Cincinnati Market. By far the best strain of the long, scarlet, short-top Radishes. Roots 6 to 7 inches long, an inch thick through, are produced within 35 days after sowing and they remain in perfect condition for the best part of a week. Skin rose scarlet, blending into pure white at the tip. It is well to remember that the long sorts require a deep, rich soil, free from stones and of a loose, sandy nature, in order to develop perfectly. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.75.**

SUMMER VARIETIES

Long Scarlet Chartier, or Shepherd. This might be considered "the connecting link" between the foregoing sorts and the very much later kinds that follow. Long Scarlet Chartier is ready in about 45 days after sowing. The color at the top is crimson, running into pink about the middle, and from thence downward is a pure white. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.75.**

Early Golden Yellow Oval. Absolutely unsurpassed in heat resistance. When ready for use, the Radishes average $1\frac{1}{2}$ to 2 inches in diameter and have a beautiful, golden yellow skin, which should be removed when preparing roots for table. Flesh pure white, mild, crisp, and solid. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$3.**

White Strasbourg. Shape tapering; skin and flesh both white; excellent summer variety. **Pkt. 10c., oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.**



Early Scarlet
Globe Radishes

LONG-KEEPING WINTER RADISHES

Sakurajima. A Japanese sort which reaches truly remarkable size. The circumference of some is 43 inches, the length 21 inches. The skin is white and the flesh is always crisp and tender. The taste is more delicate than our American varieties, and we believe that this variety will become popular. **Pkt. 10c., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.**

California Mammoth White Winter. A white-fleshed Radish of excellent quality. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.**

Rose China. Bright rose color; flesh firm and piquant; fine for winter use. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.**

Long Black Spanish. The popular winter sort. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.**

Round Black Spanish. Thick black skin and pure white flesh. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.**

RHUBARB

One ounce will produce about 1,000 plants

CULTURE.—Sow early in spring, in drills one inch deep and a foot apart; thin out; transplant the following season 4 feet apart each way.

Linnaeus. Early, large and tender. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.**

Victoria. Very large, somewhat later than Linnaeus. **Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.**

Roots. 15 cts. each, \$1.50 per doz.; extra-strong clumps, 25c. each, \$2.50 per doz.



New York Market Spinach (Long Island Grown)

SPINACH

One ounce will sow about
100 feet of drill

CULTURE.—Sow in March or April in drills an inch deep and 14 inches apart; again in August or September. Spinach delights in very rich soil—in fact, it is of no use sowing in a poor one.

S & W. Co.'s New York Market. (Long Island grown.) This Spinach grows rapidly and produces unusually large, thick, crumpled leaves of beautiful green. Properly cultivated and manured, the plants very often measure 2 feet across, and stand the winter better than any other sort of Spinach. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 50 cts., lb. \$1.50.**

S. & W. Co.'s Savoy-leaved. A variety highly valued alike by market-growers and home-gardeners. The leaves are wrinkled and crumpled, resembling, to an extent, the Savoy cabbage. The variety is profitable on account of the heavy yield of produce, and it is particularly hardy. **Pkt. 5 cts., oz. 10 cts., 1/4 lb. 25 cts., lb. 75 cts.**

S. & W. Co.'s Large Thick-leaved. A splendid variety for the market-grower and trucker. The leaf is large and very thick. The fact that Thick-leaved is a type that is slow to run to seed makes it a favorite for late spring and early fall seedings. **Pkt. 5 cts., oz. 15 cts., 1/4 lb. 30 cts., lb. \$1.**

Long Season. A distinct variety, standing from two to three weeks longer than any of the other sorts in this climate without going to seed. **Pkt. 5 cts., oz. 15 cts., 1/4 lb. 30 cts., lb. \$1.**

Monstrous Viroflay. A fine selection of the old lettuce-leaved Spinach. Excellent for summer use. **Pkt. 5 cts., oz. 10 cts., 1/4 lb. 25 cts., lb. 75 cts.**

Victoria Long-Standing. A variety suitable alike for spring and fall seeding. It is of low, compact habit; leaves shining dark green and heavily crumpled, forming a dense, flat rosette with very short petioles. Victoria is a great favorite with the market grower on account of the slowness with which it shoots to seed. **Pkt. 5 cts., oz. 15 cts., 1/4 lb. 30 cts., lb. \$1.**

Prickly, or Winter. The hardest Spinach, and a variety of actual merit. Used chiefly for latest fall seedings, when, with the protection of hay or straw, it will carry over the winter through into the spring more readily than other types. It is also suitable for spring seeding. Leaves are long and deeply cut, carried on long petioles. In quality the Spinach is first class, and in bulk of produce it is also satisfactory. **Pkt. 10c., oz. 20 cts., 1/4 lb. 40 cts., lb. \$1.25.**



Large Thick-leaved Spinach. A variety that is slow to "bolt" to seed

SALSIFY (Vegetable Oyster)

One ounce will sow about 50 feet of drill

CULTURE.—Sow the seed early in spring, in drills 12 inches apart and 1 inch deep, thinning out the young plants to 6 inches. The roots will be ready in October, when a supply should be taken up and stored like carrots. Those remaining will suffer no injury by being left in the ground until spring.

Mammoth Sandwich Island. Tender and delicious. Superior to all other sorts. **Pkt. 10 cts., oz. 25 cts., 1/4 lb. 75 cts., lb. \$2.75.**

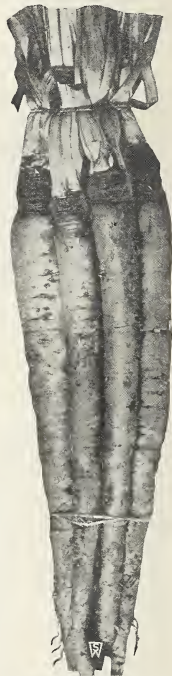
SCORZONERA

(Black Salsify)

One ounce will sow about 50 feet of drill

CULTURE.—Cultivate the same as salsify. The roots should not be scraped, but simply washed, boiled tender, then peeled and served like asparagus.

Improved. **Pkt. 10 cts., oz. 40 cts., 1/4 lb. \$1.40, lb. \$5.**



Mammoth Sandwich Island Salsify

NEW ZEALAND SPINACH

Tetragonia expansa)

A half-hardy annual cultivated for its young leaves which form an excellent substitute for Spinach. The plants grow very vigorously, do not run to seed, and withstand drought much better than Spinach. New Zealand Spinach should therefore find a place in every garden, to furnish a summer supply of green boiled vegetables. It is recommended for use, also, on soils too poor to carry Spinach of the true type, as it grows naturally on dry upland situations.

CULTURE.—Sow during May, in drills which should be at least 2 feet apart, as the plants spread rapidly. Thin to 9 inches between the plants in the row. Keep the surrounding soil well stirred and pinch off the young leaves and shoots freely as required, when others will be produced quickly in their place right through the summer. One seeding will suffice for a whole season, as the plants produce continuously until frost.

Imported Seed of high vitality and best quality. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 65 cts., lb. \$2.**

SWISS CHARD

Spinach Beet

One ounce will sow about 100 feet of drill

Considering the limited space it occupies, this yields a remarkable amount of food. The plants are cultivated for the leaves which are used for "greens," the same as spinach or beet-tops; they are equal in quality and easier to prepare than spinach, and far superior to beets. Sow as early in spring as the ground can be worked, in rows 12 inches apart, and thin out to 5 inches apart in the rows. As it grows, thin out for use. It can be used all summer when spinach is not available. Later, the leaves grow very large, with broad, flat, pure white stems and midribs, which may be cooked like asparagus.

Green Lyon. A vigorous-growing, stocky type with smooth, deep green leaves and broad, thick stalks. Its cultivation is so simple and uniformly successful that it should find a place in every garden. A 25-foot row ensures a supply of delicious "greens" whenever desired during the summer. **Pkt. 10c., oz. 20c., 1/4lb. 60c., lb. \$2.**

Giant Lucullus. Plants of this variety grow to a height of 2 to 2 1/2 feet. The stalks are quite thick, 1 1/2 inches broad, heavily ribbed and from 10 to 12 inches long below the leaf. These stalks are splendid when cooked and served in the same manner as asparagus. The extra-large leaves are sharply pointed at the top, while in texture they are heavily crumpled. The leafy portion of the foliage is cooked and served in the same manner as spinach. The leaves and stalks, served as separate vegetables, afford two distinct dishes from the same plant at one time. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 75 cts., lb. \$2.25.**

Mammoth New York. (See Novelties, page 5.) **Pkt. 15 cts., 1/2oz. 35 cts., oz. 65 cts., 1/4lb. \$2.50.**



Green Lyon. The smooth-leaved type with short, thick, white "Chards" or stems.



Giant Lucullus. A tall Swiss Chard with deeply wrinkled and crumpled leaves

SEA KALE

One ounce will produce about 300 plants

Sow an inch deep in drills 2 feet apart, thin out to 6 inches, and the next spring plant in hills 3 feet apart. Sea Kale is cultivated somewhat like asparagus and, like it, the crop is not available until the third year from seed, after which the bed will bear for a number of years. The blanched leaf-stalks are boiled and served with cream sauce. A very useful method of cultivation is to dig the roots and "force" them during winter in the same way as Witloof is grown. **Pkt. 15 cts., oz. 50 cts., 1/4lb. \$1.85, lb. \$6.50.**

SORREL

One ounce will sow about 100 feet of drill

CULTURE.—Sow early in the spring in drills 6 to 8 inches apart. **Garden.** Used for salads, and much esteemed on account of its pleasant acid flavor. Also widely used in many sections of the country as a boiled vegetable. The plant is perennial, and will yield for several years if left undisturbed. **Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1.25, lb. \$4.**

Grow Health-Giving "Greens"

Spinach and allied plants grown for boiled "Greens" are nourishing, and they provide food elements which cannot be obtained readily otherwise. They possess great medicinal value, also, in assisting digestion and enabling the functions of the body to perform efficiently. The following vegetables are among those which furnish boiling greens and they should have a place in every garden:

Beet-tops	Escarolle	Seven-Top Turnip
Brussels Sprouts	Kale	Sorrel
Cabbage	Mustard	Spinach
Collards	New Zealand Spinach	Swiss Chard

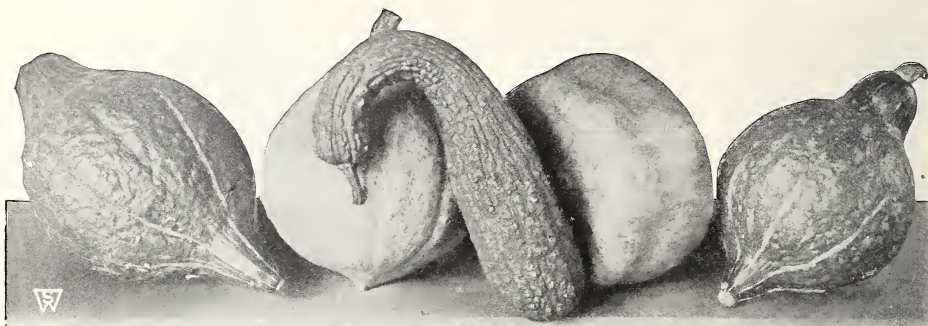


AN EFFICIENT GARDEN CULTIVATOR AT A POPULAR PRICE

The "Standard" Cultivator

is the most efficient high-wheel cultivator made. By means of a patented frame, adjustment is made instantly with one wing nut. Attachments are forged from tool steel, hardened and polished. They will scour and work perfectly in any soil. **Price, complete with three attachments, \$5.**

THIS MACHINE IS GUARANTEED



Hubbard

Boston Marrow

Crookneck

Delicious

SQUASH

One ounce of Early Squash will plant about 25 hills
One ounce of Marrow Squash will plant about 50 hills

CULTURE.—The Squash succeeds best in good rich soil. It is not advisable to plant before May 15. Sow in hills in the same manner as cucumbers and melons.

SUMMER VARIETIES

Long Island White Bush. A selection of the Old White Bush Scalloped, and a vast improvement upon it, having less prominent ridges and being much deeper, so that a single Squash actually contains nearly twice as much weight for the same cubic measurement as the old sort. In addition to this, it is of finer quality and very prolific. We can strongly recommend this variety. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 80 cts., lb. \$2.50.**

Giant Bush Summer Crookneck. The Crookneck class of Squash surpasses in quality any of the summer varieties, and in the Giant Bush we have the delicious buttery flavor of the original sort, but of just double the size. See illustration above. **Pkt. 10c., oz. 25c., 1/4lb. 80 cts., lb. \$2.50.**

Delicata. Early and very prolific; of oblong shape. Ground color orange-yellow, splashed and striped with very dark green. Although of small size, the Squashes are solid and heavy, while the quality is rich and dry. An excellent "all seasons" Squash. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 60 cts., lb. \$3.**

Golden Custard. Mammoth strain of the Early Yellow Scalloped Bush. Golden yellow flesh, quality excellent. **Pkt. 5 cts., oz. 20 cts., 1/4lb. 55 cts., lb. \$1.75.**

FALL OR WINTER VARIETIES

Chicago, or Warty Hubbard. A selection of the largest and best rough-skinned specimens of Green Hubbard. Ideal for the home market. Vines of strong, robust growth; fruits large, heavily warted, splendid shape and dark green; flesh rich and dry. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 80 cts., lb. \$2.50.**

Golden Hubbard. For the private garden. The fruits are of the same shape as the Green Hubbard, except that they average one-half to one-third less in size. Flesh deep gold, much richer in color than Hubbard. Cooks dry and of rich flavor. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 80 cts., lb. \$2.50.**

Hubbard. Bluish green color, occasionally marked with brownish orange. Will keep from September to May. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 80 cts., lb. \$2.50.**

Boston Marrow. A very popular Squash for fall or winter use.

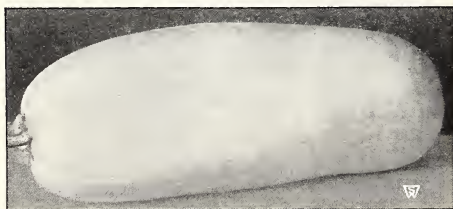
Bright orange color, flesh yellow; oval in form. A splendid keeper and excellent for pies. **Pkt. 5 cts., oz. 15 cts., 1/4lb. 50 cts., lb. \$1.50.**

Delicious. No Squash approaches it in its remarkable combination of fineness and compactness of grain, dryness, sweetness, and exceeding richness of flavor. It grows to weigh from 5 to 10 pounds, and is in its prime in mid-autumn and early winter. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 80 cts., lb. \$2.50.**

ENGLISH VEGETABLE MARROW

A type of Squash that always occupies an important place in European gardens, and one which is considered superior in many respects to our American varieties of Summer Squash. Cultivation is similar, although to obtain quickest and largest yields it is often grown on spent hotbeds or in a few inches of soil placed on a manure-pile. The Marrows are gathered before they ripen—usually in about a similar stage of maturity to that of Cucumbers when gathered for slicing. They are peeled, divided, and the seeds are removed; then cut into 3-inch squares, boiled until tender and served as a melting and delicious side dish with cream sauce.

Long Green Trailing. The fruits are about 20 inches in length and 3 or 4 inches in diameter. The skin is dark green, marbled with a paler shade. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 90 cts., lb. \$3.**



Long White Trailing Vegetable Marrow

Long White Trailing. The fruit is a little shorter than the Long Green Trailing, but otherwise it is similar in shape. The skin is smooth and of a yellowish white. The flesh is remarkably tender. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 90 cts., lb. \$3.**

Moore's Cream. An improved small-fruited variety; the fruits are oval in shape, cream-colored and of a very delicate flavor. **Pkt. 10 cts., oz. 30 cts., 1/4lb. \$1. lb. \$3.50.**

Italian Vegetable Marrow (Cocozelle Squash). A non-trailing type producing oblong fruits a foot in length and about 5 inches in diameter; handsomely mottled dark green and light. A great favorite. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 90 cts., lb. \$3.**

Mixed Vegetable Marrow. Trailing and non-trailing, all varieties in combination. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 90 cts., lb. \$3.**

TURNIP

One ounce will sow about 150 feet of drill

CULTURE.—For early Turnips, sow as soon as the ground opens in spring. Rutabagas should be sown from any time in July to first of August; but the other kinds, for winter use, may be sown from the middle of July to the end of August. Turnips are generally sown broadcast, but much larger crops are obtained (particularly of the Rutabagas) by cultivating in drills 18 inches apart, and thinning to 6 inches in the drill. Sow in drills, one pound to the acre; broadcast, two to three pounds to the acre.

FINE WHITE-FLESHED TYPES

Early White Milan.

As early as the Early Purple-Top Milan and possessing all of its good qualities. The entire "bulb," inside and out, is clear ivory-white in color; the outer surface is perfectly smooth. It grows so quickly that even the outer surface of the "bulb" is quite tender. Its table qualities are unequalled, being of the most delicate flavor and tempting appearance. **Pkt. 10c., oz. 30c., 1/4lb. \$1, lb. \$3.25.**

Purple-Top White Globe. This variety may be grown to quite a large size, without developing signs of coarseness. It is of spherical shape, the skin white with the upper one-third colored reddish purple. The flesh is pure white, firm, fine-grained, and of superior flavor. A handsome looking bulb, rapidly taking the lead of all other varieties of early Turnips for market and home-gardening purposes. It is one of the best sorts to store for winter, and, in addition to its fine table qualities, it is excellent and economical for stock-feeding. **Pkt. 5 cts., oz. 20 cts., 1/4lb. 55 cts., lb. \$1.75.**

Snowball. An excellent first-early, globe-shaped root; smooth, clean, and free from all coarseness. A variety that is recommended particularly to the home-gardener on account of its splendid table qualities. **Pkt. 10 cts., oz. 25 cts., 1/4lb. 50 cts., lb. \$2.50.**
Red-Top Strap-Leaf. A very popular type, maturing in about two months from sowing. The roots are flat, marked with reddish purple on the upper portion; the flesh is pure white and of fine quality. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 60 cts., lb. \$2.**

Early Purple-Top Milan. An excellent smooth-skinned flat Turnip; the upper portion is tinted purple, but the flesh is pure white, delicate, and sweet. **Pkt. 10 cts., oz. 30 cts., 1/4lb. 60 cts., lb. \$3.**

White Egg. A variety that is oval in shape, and is, in consequence, somewhat more economical than the globe or flat types. It is sweet, very mild, and of fine crisp texture. Color pure white. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 60 cts., lb. \$2.**

Long White, or Cow Horn. A quick-growing, long-shaped variety; flesh fine-grained and sweet, excellent for table use. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 60 cts., lb. \$2.**

White French, or Sweet German. A delicate-flavored variety; an excellent keeper and fine for table use. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 60 cts., lb. \$2.**

YELLOW-FLESHED TYPES

Golden Ball, or Orange Jelly. This is the most distinct yellow Turnip we know. The flesh is of a very fine texture, making it one of the best table varieties. Its beautiful color and fine flesh have earned for it the synonym of "Orange Jelly," which well describes its appearance when ready for the table. The bulb is of medium size, with small tap-root, and is early in maturing. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 60 cts., lb. \$2.**

Yellow Aberdeen. A very hardy and productive variety of fine form and excellent quality. It has a purple top, keeps remarkably well, and is excellent both for the table and for stock. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 60 cts., lb. \$2.**

AN ALL-LEAF TURNIP

Seven Top. In this variety there is but little development of root. The leaves, however, are very numerous and large, and the vegetable is recommended to those who esteem "Turnip-tops," as a particularly healthful and palatable green cooked vegetable, many considering it superior to spinach. **Pkt. 10 cts., oz. 15 cts., 1/4lb. 50 cts., lb. \$1.50.**

RUTABAGA (Russian or Swedish Turnip)

S. & W. Co.'s Long Island Improved. This special strain of Rutabaga is grown on Long Island by a very careful grower. It is of a remarkably uniform shape and fine quality, and is also a splendid keeper. It grows to a large size, the skin is smooth, and flesh is beautiful yellow and fine-grained. **Pkt. 10 cts., oz. 20 cts., 1/4lb. 60 cts., lb. \$2.**



Snowball. A particularly refined table Turnip



Purple-Top White Globe Turnip

TOMATO

One ounce will produce
about 1,000 plants

CULTURE.—The seed should be sown in a hotbed about the first week in March, in drills 5 inches apart and half an inch deep. When the plants are about 2 inches high, they should be transplanted into another hotbed and planted 4 inches apart, or planted in 4-inch pots, allowing a single plant to a pot. About the 15th of May the plants may be set out in the open ground 3 feet apart. Water freely at the time of transplanting. Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower-pot, and placing it in a sunny window of the room or kitchen. The fruit is greatly improved in quality if the vines are tied to a trellis or to stakes.

BEST BRIGHT RED OR SCARLET KINDS

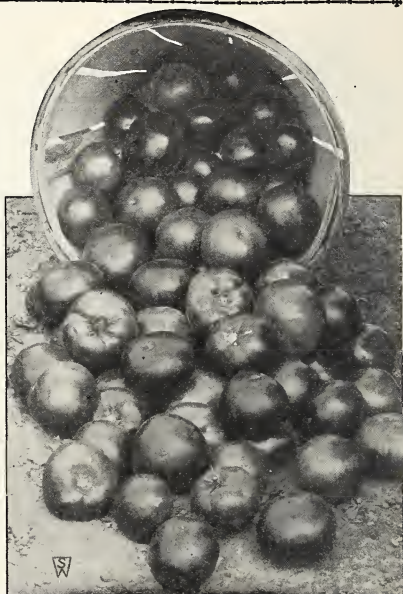
Earliana. **The Earliest Red Tomato.** The plants are of compact growth, with short, close-jointed branches, setting the fruit very freely in the center. The Tomato is of uniform size, averaging 3 inches in diameter, and from 2 to 2½ inches in depth; solid, with few seeds, making a splendid variety for shipping. **Pkt. 10 cts., ½oz. 25 cts., oz. 45 cts., ¼lb. \$1.50, lb. \$5.50.**

Chalk's Early Jewel. About a week later than Earliana. It is of uniformly large size; of brightest red, deep fruited and solid. Bears splendid, large-sized Tomatoes throughout the season, and for quantity and quality of fruit it is easily without a rival among the best extra-earlies. **Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. \$1.40, lb. \$5.**

Crimson Cushion. The Crimson Cushion is more symmetrical in shape than the Ponderosa, and is much thicker through from stem to blossom end; in fact, so marked is this characteristic that it is frequently almost round. The color is brilliant scarlet-crimson, untinged with purple, and ripens up almost to the stem. The flesh is firm and "meaty," and of superb quality. **Pkt. 10 cts., ½oz. 30 cts., oz. 55 cts., ¼lb. \$1.80, lb. \$6.50.**

Coreless. Large size, globe-shaped, bright red; full stem end, heavy cropper. The two distinctive features which stand out most prominently are great depth from stem to blossom, and the depression at the stem has been almost entirely eliminated. **Pkt. 10 cts., ½oz. 30 cts., oz. 50 cts., ¼lb. \$1.75, lb. \$6.**

Matchless. The color is rich cardinal-red. The skin is so tough that it is a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or for table. The plant is a strong grower, and is very productive, bearing with undiminished vigor until frost. The fruit is free from core, and the seed-spaces are comparatively small. In flavor among the best. **Pkt. 10 cts., ½oz. 30 cts., oz. 50 cts., ¼lb. \$1.75, lb. \$6.50.**



Chalk's Early Jewel Tomato

Selected Stone. By far one of the best of the main-crop red Tomatoes. It is smooth with very little core, and is not equalled by any other main-crop sort in its large yield of uniform-sized Tomatoes. **Pkt. 10 cts., oz. 35 cts., ¼lb. \$1.30, lb. \$4.50.**

Dwarf Stone. The fruits are produced in clusters of three to five, and as the growth is close-jointed, each plant produces a large number. The Tomatoes average 4 inches in diameter and 2½ inches in depth. Its dwarf, compact habit suggests its use to all amateurs. **Pkt. 10c., ½oz. 25c., oz. 45c., ¼lb. \$1.50, lb. \$5.50.**

Bonny Best. Considered among the best of the early sorts. The fruits are bright red in color, of medium size, and are produced in large quantities. **Pkt. 10c., ½oz. 25c., oz. 40c., ¼lb. \$1.40, lb. \$5.**

S. & W. Co.'s Exhibition Strain of New

Globe. See Novelties. **Pkt. 15 cts., ½oz. 45 cts., oz. 85 cts., ¼lb. \$2.75.**

PINK AND PURPLE SORTS

Acme. A purple-fruited Tomato, largely grown by the market-gardeners. The vines are large, bearing fruits in clusters of five or six right up to frost. **Pkt. 10 cts., oz. 35 cts., ¼lb. \$1.30, lb. \$4.50.**

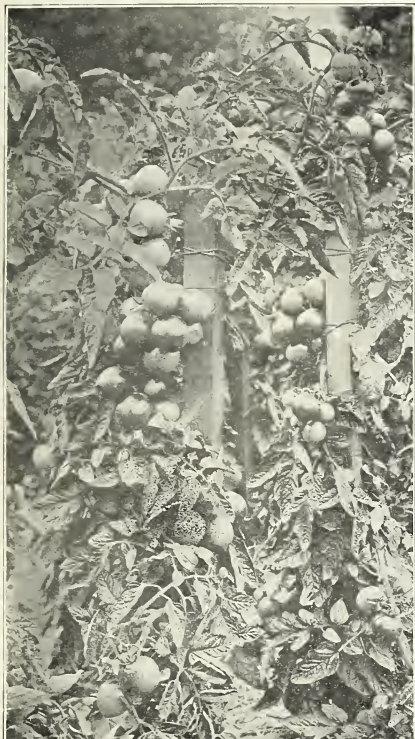
Dwarf Champion. Distinct in foliage and habit of growth, being compact and upright; fruits medium size and resemble the Acme in appearance, the color being a purplish pink; smooth and symmetrical. **Pkt. 10 cts., ½oz. 25 cts., oz. 45 cts., ¼lb. \$1.50, lb. \$5.50.**

June Pink. The earliest pink Tomato, similar to Earliana except that the color is pink instead of red. The fruits are of fair size and ripen evenly. **Pkt. 10c., ½oz. 25c., oz. 45c., ¼lb. \$1.55, lb. \$5.50.**

Ponderosa. Few Tomatoes equal this one in size and, while slightly ribbed, it is very solid and luscious for the family garden. The fruit is deep purple, oblong in form, generally ridged or ribbed with small seed-cells and frequently weighs one pound. **Pkt. 10c., ½oz. 40c., oz. 75c., ¼lb. \$2.75, lb. \$10.**



Crimson Cushion Tomato



John Baer Tomato. The plants have been trained to a single stem

A Remarkable New Tomato

John Baer. An early, bright red Tomato of wonderful quality. But little later than Earliana, it far surpasses that variety in size and quality; it is, further, one of the heaviest-yielding sorts we know. The flesh is solid, possessing a fine flavor, free from acid. The fruits contain remarkably few seeds, and in this connection it is interesting to note that for seed purposes we find it requires over seven bushels of hand-selected, perfect fruits to produce one pound of seed. This fact was somewhat of a surprise to us when harvesting our 1920 crop, and our supplies of this variety are short. The limited quantity which we have to offer is of a private stock and has been grown under our personal supervision. **Pkt. 15 cts., 1/2oz. 65 cts., oz. \$1.25, 1/4lb. \$4.50, 1b. \$15.**

The Best Yellow Tomato

Golden Ponderosa. The best large golden yellow Tomato. Smooth in appearance, of excellent quality, enormous size and ripens early. In shape very much like the Scarlet Ponderosa, but of a bright yellow color. Golden Ponderosa, served sliced and accompanied by a high-class scarlet variety, similarly sliced, presents an appetizing combination difficult to resist. **Pkt. 10 cts., 1/2oz. 40 cts., oz. 75 cts., 1/4lb. \$2.50, 1b. \$8.50.**

Small-Fruiting Tomatoes

The fruits of these are largely used for making fancy pickles, preserves, etc., while their size, shape, color, and flavor make them desirable additions to salads. The plants are extremely productive. **King Humbert.** In shape and size, King Humbert is suggestive of a hen's egg. The fruits are bright scarlet in color and are frequently produced in enormous clusters. **Pkt. 15 cts., 1/2oz. 45 cts., oz. 75 cts., 1/4lb. \$2.75.**

Yellow Cherry	Red Pear-shaped
Red Cherry	Yellow Pear
Red Currant	Red Plum
Peach	Yellow Plum

Above eight varieties: **Pkt. 10 cts., 1/2oz. 30 cts., oz. 50 cts., 1/4lb. \$1.75**
Strawberry or Husk Tomato. The plants are of dwarf, spready growth and very productive. The fruit is yellow, about the size of a good-sized strawberry and is enclosed in a husk. **Pkt. 10 cts., 1/2oz. 30 cts., oz. 50 cts., 1/4lb. \$1.75.**

COLLECTION of Small-fruited Tomatoes: One packet each of the above 10 varieties, \$1

Forcing Tomatoes

Varieties recommended for cultivation under glass, yielding during winter and spring.

S. & W. Co.'s Best of All. A variety of matchless form and color. Fruits beautiful, smooth, round and wonderfully prolific. Color of rich scarlet-red; setting very freely in bunches. Equally good for outdoor culture as for forcing. **Pkt. 15 cts., 1/2oz. 40 cts., oz. \$1.25.**

Comet. Grown very largely by both private and market-gardeners. It is very short-jointed, fruiting close up to the stem. The Tomatoes are of medium size; deep scarlet. See illustration below. **Pkt. 15 cts., 1/2oz. 30 cts., oz. \$1.**

Stirling Castle. A very superior variety for either forcing or outdoor culture. Very heavy cropper, of medium size, smooth and round. Color a clear red. Remarkable for its free setting qualities and delicious flavor. **Pkt. 15 cts., 1/2oz. 30 cts., oz. \$1.**

Sunrise. A fruit of fine quality, medium in size, perfectly round, and produced in characteristic long clusters. It is considered by many growers to be the best indoor Tomato grown, and the best outdoor variety where a small "whole-salad" type of fruit finds favor. Sunrise has won many awards and prizes. **Pkt. 15 cts., 1/2oz. 30 cts., oz. \$1.**

Ideal Forcing. A splendid new Tomato for greenhouse growing, of uniform medium size and pleasing globe shape. The flavor is all that can be desired, while the flesh is thick and firm. The seed cavity is small and the seeds are few. The color is a brilliant scarlet. **Pkt. 25 cts.**

Stamford Beauty. A new indoor Tomato, giving a remarkably heavy yield of large-sized fruit, solid, of rich red color and high quality. **Pkt. 25 cts.**



Greenhouse-grown Tomatoes as shipped during the winter months into the New York market

Uniform containers holding 10 pounds are used, and the individual fruits are wrapped in tissue paper. A suitable Tomato weighs 4 ounces, and in shape a deep globe; the color bright scarlet. Comet is a variety largely used for growing under glass.

Vegetable Roots and Plants

Artichoke Roots, Jerusalem. Used for feeding stock and pickling. Tubers resemble potatoes. Qt. 35 cts., pk. \$2.

Asparagus Roots. For full description, culture and prices, see page 6.

Chives. Used for flavoring. We supply large, growing clumps, 25 cts. each, \$2.50 per doz.

Horse-Radish Roots. Will produce good Horse-Radish, fit for use in one season's growth. Plant the root so that the top will be 2 inches under the ground. 25 cts. per doz., \$1.50 per 100.

Mint Plants. Selected pot-plants. Used for Mint sauce and juleps. 25 cts. each, \$2.50 per doz.

Rhubarb Roots. The roots we offer are of the Giant Crimson Winter variety. They may be planted in any good garden soil in the early spring. Divided roots, 10 cts. each, \$1 per doz., \$9 per 100; extra-strong clumps, 25 cts. each, \$2.50 per doz., \$20 per 100.

Sweet Potato Plants. Red or Yellow variety. Ready in June. 75 cts. per 100, \$5 per 1,000.

Tarragon Plants. Used for seasoning. Strong pot-plants, 35 cts. each, \$3.50 per doz.

Cauliflower Plants.

Cabbage Plants.

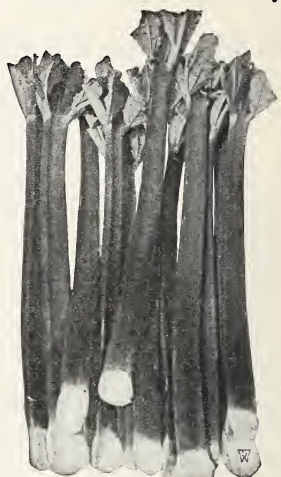
Eggplant Plants.

Pepper Plants.

Lettuce Plants.

Tomato Plants.

Furnished during April, May and June. Prices and varieties on application.



Rhubarb

Vegetable Roots for Winter Forcing

Send for circular giving descriptions and cultural treatment

Asparagus. Extra-large clumps of Barr's Mammoth and Conover's Colossal. \$1.50 per doz., \$10 per 100, \$90 per 1,000.

Rhubarb Roots. Extra-large clumps of Giant Crimson Winter. Excellent for forcing in the cellar or greenhouse during the winter months. 50 cts. each, \$5 per doz., \$35 per 100.

Witloof Chicory Roots. Extra-selected roots for forcing. 10 cts. each, 75 cts. per doz., \$5 per 100, \$40 per 1,000.



Sicilian Fennel or Finocchio

Aromatic, Medicinal and Pot Herbs

	Pkt.	Oz.
Anise (<i>Pimpinella Anisum</i>). Seeds aromatic and carminative.	\$0 10	\$0 30
Arnica (<i>Arnica montana</i>). Valuable medicinal qualities.	20	
Balm (<i>Melissa officinalis</i>). For culinary purposes.	15	
Basil (<i>Ocimum basilicum</i>). Sweet. Culinary herb used for flavoring soups, etc.	10	25
Bene (<i>Sesamum orientale</i>). The leaves used for dysentery.	15	40
Borage (<i>Borago officinalis</i>). Leaves used as a salad.	10	25
Burnet (<i>Poterium Sanguisorba</i>). Used in the manufacture of cooling drinks.	10	25
Caraway (<i>Carum Carui</i>). Used in flavoring liquors and bread.	10	20
Catnip (<i>Nepeta cataria</i>). Has medicinal qualities.	15	40
Chives (<i>Allium Schoenoprasum</i>). Used as a substitute for onions in soups and salads. (Clumps offered above.)	20	1 00
Coriander (<i>Coriandrum sativum</i>). Seeds aromatic.	10	15
Dill (<i>Anethum graveolens</i>). Seed used for flavoring vinegar.	10	20
Fennel (Sicilian). True variety; rounded thickened leaf-bases.	10	25
Horhound (<i>Marrubium vulgare</i>). Has medicinal qualities.	15	40
Hyssop (<i>Hyssopus officinalis</i>). Has medicinal qualities.	15	40
Lavender (<i>Lavandula vera</i>). True. For oil and distilled water.	20	75
Marjoram (<i>Origanum Majorana</i>). Sweet. Used in seasoning.	15	50
Rosemary (<i>Rosmarinus officinalis</i>). Yields an aromatic oil and water.	15	50
Rue (<i>Ruta graveolens</i>). Said to have medicinal qualities.	15	50
Saffron (<i>Corchamus tinctorius</i>). Used for medicine and also in dyeing.	15	40
Sage (<i>Salvia officinalis</i>). Common. A culinary herb; also used in medicine.	15	50
Savory (<i>Satureja hortensis</i>). Summer. Used as a culinary herb.	15	40
Thyme (<i>Thymus vulgaris</i>). Broad-leaved English. Used as a seasoning.	15	50
Woodruff (<i>Asperula odorata</i>).	20	
Wormwood (<i>Artemisia Absinthium</i>). Has medicinal qualities.	15	40



Mint Lavender Summer Savory Rosemary Thyme Sage Chamomile Arnica Dill Sweet Marjoram

COLLECTIONS OF VEGETABLE SEEDS

That Ensure a Season's Supply from the Garden, \$1, \$2, \$5 POSTAGE INCLUDED

THESE COLLECTIONS include the most popular standard varieties, all of the same reliable quality as the goods listed elsewhere in our Catalogue. The fact that we are able to prepare them in advance of our rush selling season, thus reducing handling charges, enables us to *save you money*. Further, you may be one of our customers to whom the selection of varieties from our Catalogue is burdensome; in which case, the fact that our collections *save you time* will commend them to you.

S. & W. Co.'s Garden Full of Vegetables for One Dollar. Eighteen packets of the best seeds obtainable. List of contents on application.

S. & W. Co.'s Suburban Garden Collection. This contains twenty-five packets, each enclosing a generous quantity of the highest quality seeds, as follows:

Bush Beans, 4 vars.	Carrot	Cucumber	Muskmelon	Peas, 2 varieties	Tomato
Beet	Celery	Kohlrabi	Onion	Radish, 2 varieties	Spinach
Cabbage, 2 varieties	Corn	Lettuce, 2 varieties	Parsley	Swiss Chard	Turnip

MAILED ANYWHERE IN THE UNITED STATES OR CANADA, \$2, INCLUDING POSTAGE

The Suburban Garden Collection will plant a garden up to about 40 by 50 feet in size. The above varieties, if selected separately from Catalogue, cost \$2.55.

S. & W. Co.'s Country Garden Collection. This comprises thirty-five packets, ounces, and half-pounds of the highest quality seeds, as follows. Their total value, if selected separately from our Catalogue, amounts to \$5.40. The Country Garden Collection will plant a garden up to 50 by 100 feet in size.

1/2 lb. Beans, Bountiful	1 pkt. Cucumber, White Spine	1/2 lb. Peas, Telephone
1/2 lb. Beans, Refugee (1,000-to-1)	1 pkt. Endive, Broad-leaved Batavian	1 pkt. Pumpkin, Large Cheese
1/2 lb. Beans, Improved Golden Wax	1 pkt. Kohlrabi, Early White	1 oz. Radish, Sparkler
1/2 lb. Beans, Fordhook Bush Lima	1 pkt. Lettuce, Grand Rapids	1 oz. Radish, White Icicle
1 oz. Beet, Extra-Early Egyptian	1 pkt. Lettuce, Big Boston	1 oz. Salsify, Mammoth Sandwich Island
1 oz. Beet, Detroit Dark Red	1 pkt. Muskmelon, Rocky Ford	1 oz. Spinach, New York Market
1 pkt. Cabbage, Improved Early Jersey Wakefield	1 oz. Onion, Yellow Globe Danvers	1 pkt. Squash, Giant Bush Summer Crookneck
1 pkt. Cabbage, Large Late Flat Dutch	1 pkt. Parsley, Champion Moss Curled	1 pkt. Swiss Chard, Green Lyon
1 oz. Carrot, Selected Danvers	1 oz. Parsnip, Improved Hollow-Crown	1 pkt. Tomato, Stone
1 pkt. Corn, Golden Bantam	1/2 lb. Peas, First of All	1 pkt. Turnip, Early White Milan
1 pkt. Corn, Metropolitan	1/2 lb. Little Marvel	1 pkt. Turnip, Rutabaga

MAILED ANYWHERE IN THE UNITED STATES OR CANADA, \$5, INCLUDING POSTAGE

Collections of Vegetable Seeds for Children's Gardens

FOR DISTRIBUTION BY SCHOOL AUTHORITIES, PERSONAL GIFT, ETC.

As supplied to the Education Department, New York City

These Collections comprise one small packet each of the following. Seeds are of the highest quality and strongest vitality:

Bush Beans Beet Carrot Kohlrabi Lettuce Radish Swiss Chard

DOZEN COLLECTIONS, \$2.50. HUNDRED COLLECTIONS, \$19. THOUSAND COLLECTIONS, \$180.

On lots of one hundred or more we print name of donor or community. No smaller quantity than one dozen collections can be furnished.



S. & W. Co.'s Seeds gave these young New Yorkers good results despite difficult gardening conditions

ROOT CROPS FOR STOCK-FEEDING

We recommend strongly to the cattle breeder and dairy farmer, Mangels, Carrots and Rutabagas. A palatable, easily stored, easily digested, and nutritious food is yielded in large quantities per acre. They stimulate the flow of milk of high grade; their cultivation ensures the thorough cleaning of the land; and they may be stored into the winter in root-cellars or outdoor 'pits' with but little trouble.

MANGEL-WURZEL

CULTURE.—Sow in drills during May or June, about 2 feet apart; thin out to 9 to 12 inches in the rows. The long varieties are best suited to a deep soil, and the globe sorts succeed better than the long sorts on sandy soil. 6 to 8 pounds are required for one acre.

Mammoth Long Red. This is the giant among Mangels. The roots are of enormous size, very regular and clean, with but small top-growth. The skin is bright, rich red, and the roots, which frequently exceed 2 feet in length, grow from one-half to two-thirds above the ground. The maximum tonnage per acre is produced by this variety. **Oz. 15 cts., 1/4lb. 35 cts., lb. \$1, 10 lbs. \$9.**

Red Eckendorff. This variety is suited to soils of medium depth. It is of high feeding value, and its tonnage yield per acre is enormous when cultivated with average care. Its peculiar shape enables the grower to lift the crop with little difficulty. **Oz. 15 cts., 1/4lb. 35 cts., lb. \$1, 10 lbs. \$9.**

Champion Yellow Globe. Occupies the same position among Mangels as the Jersey cow does among cattle. The skin is a rich, deep yellow; the flesh is fine, white, and solid. Not only does its shape lend itself to easy lifting, but two-thirds of the root grows above ground, hence it is a good variety where the soil is shallow. Its feeding value is high and it is a good keeper. **Oz. 15 cts., 1/4lb. 30 cts., lb. 90 cts., 10 lbs. \$8.**

BARRE'S SLUDSTRUP. Has been recommended as holding the record for dry-matter content. This Mangel has been awarded a First-Class Certificate several times by the Danish government, the highest honor in Denmark, where Mangels are as important as corn is here. Sludstrup is a long, reddish root, growing half out of the ground. Easily pulled, good yields; very hardy and nutritious. **Oz. 15 cts., 1/4lb. 35 cts., lb. \$1, 10 lbs. \$9.**

GOLDEN TANKARD. Smooth, yellow flesh; small, yellow-stemmed top; length 11 inches, diameter 4 inches, shape cylindrical. Usually grows half out of the ground. Easily pulled, good yields; very hardy and nutritious. **Oz. 15 cts., 1/4lb. 35 cts., lb. \$1, 10 lbs. \$9.**

MAMMOTH LONG GOLDEN. The root is long and cylindrical, tapering gradually at each end. The skin is golden yellow, with a greenish shade above ground; flesh is white, sweet, and firm. A deep soil in which analysis shows the presence of a fair proportion of lime, suits this variety. In spite of the large size of the root, its shape and the fact that a large proportion of it grows out of the ground enables it to be lifted without difficulty. **Oz. 15 cts., 1/4lb. 35 cts., lb. \$1, 10 lbs. \$9.**

HALF-SUGAR ROSE. A variety combining the best qualities of sugar beets and Mangels. They are about the same shape as Long Red, but have white skin at the bottom, rose at top. Easier to harvest than sugar beets. **Oz. 15 cts., 1/4lb. 35 cts., lb. \$1, 10 lbs. \$9.**

SUGAR BEET

Klein Wanzleben. This variety is cultivated on a larger scale than any other Sugar Beet. Root is conical, straight and even, large at top and rapidly tapering. Contains a heavy percentage of saccharine matter. **Oz. 15 cts., 1/4lb. 30 cts., lb. 90 cts., 10 lbs. \$8.**

Home-made Syrup and Sugar from Home-grown Sugar Beets

THE FOLLOWING WAS TAKEN FROM FARMER'S BULLETIN NO. 823; PUBLISHED BY THE U. S. DEPARTMENT OF AGRICULTURE

"Sugar Beets may be grown in any locality that has tillable soil.

"All Sugar Beets, if properly handled, will produce Syrup. The beets are cut into thin slices and soaked in hot water (60 minutes) to extract the sugar. The liquid is then boiled down to the thickness desired.

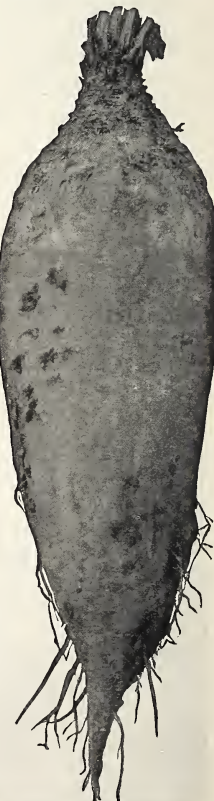
"While the boiling is progressing, a scum will rise on the surface of the liquid; this should be removed carefully by means of a skimmer.

"As soon as the Syrup has reached the desired consistency and has been skimmed carefully, it may, while still hot, be placed in cans or bottles, with well fitting covers, for future use.

"A few rows of Sugar Beets in the garden will generally be sufficient for a supply of Syrup for home use. A bushel of Beets will produce from three to five quarts of Syrup.

"The flavor of the Syrup is pleasant. It contains the pure juice of the Beet root and is a wholesome and nutritious food, which, to a certain degree, should be helpful in reducing the sugar bill.

"If the evaporation is carried far enough and the Syrup is allowed to stand, a dark sugar will settle out. This sugar will be found very satisfactory for home use in cases where refined sugar is not necessary, such as in making pies or dark-colored cake."



Mammoth Long Red. The Giant among Mangels

ROOT CROPS FOR STOCK-FEEDING

Stock Carrots

Carrots are very valuable for all kinds of domestic animals, and are better for horses than any other root-crop. When fed alternately with oats to work-teams on the farm, the value of Carrots has been found to equal the oats they displace. Succulent food, in part, will always prove beneficial. Sow four pounds to the acre, from the middle of May to July 1 for main crop. Allow 1 foot apart between rows, and thin out to 7 inches in the rows.

Danvers Half-Long. Deep orange color, half-long, tapering uniformly to a blunt point. Flesh solid, and although of medium length, this strain will give a large yield to the acre. $\frac{1}{4}$ lb. 55 cts., lb. \$1.75, 10 lbs. \$16.50.

Long Orange. A very desirable type for field culture where the soil is thoroughly and deeply tilled. A foot or more is the usual length, with a diameter of 3 inches at the top. Its economy is apparent. $\frac{1}{4}$ lb. 50 cts., lb. \$1.50, 10 lbs. \$14.

Mammoth White Belgian. We offer the best stock we know of this popular type. The root is about 16 inches long, a quarter of which is above ground. The skin is white below and is greenish where it grows above ground. Its narrow shape enables it to be grown closely together in rows with profit, and its yield is therefore enormous. Excellent as a winter ration for horses and cattle. $\frac{1}{4}$ lb. 50 cts., lb. \$1.50, 10 lbs. \$14.

RUTABAGA (Russian or Swedish Turnip)

Sow 4 pounds to the acre, in June, in drills 2 feet apart.

Improved American Purple-Top. A particularly fine type of Rutabaga with red dish purple top. It is almost spherical in shape, and in consequence is easily lifted. The yellow flesh shows on analysis a very high percentage of dry matter; in other words, its feeding value is remarkably good. In our opinion our strain of Improved American Purple-Top is the best type of Rutabaga on the market today. We recommend it for stock-feeding rather than for table use. $\frac{1}{4}$ lb. 55 cts., lb. \$1.75, 10 lbs. \$16.50.

S. & W. Co.'s Long Island Improved.

This special strain of Rutabaga is grown on Long Island by a very careful grower. It is of a remarkably uniform shape and fine quality, and is also a splendid keeper. It grows to a large size, the skin is smooth, and flesh is beautiful yellow and fine-grained. We recommend it both for table use and for stock. **Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.**

Long Orange Carrot

Danvers Half Long Carrot will give a large yield to the acre

EXPERIMENT WITH FIELD-ROOTS

We do not suggest that Roots be grown *instead* of corn, but we urge that they be grown *in conjunction* with corn; and for those of our customers who have only grown Roots in small quantities we offer an opportunity to try them out on their land. We have prepared:

Acre Collection of Field-Roots

Containing $\frac{1}{2}$ lb. each of our leading varieties, as follows:

Mangel, Mammoth Long Red.	Sugar Beet, Klein Wanzleben.
Red Eckendorf.	Carrot, Danvers Half-Long.
Champion Yellow Globe.	Rutabaga, Improved American Purple-Top.
Mammoth Long Golden.	Rutabaga, Selected Long Island Improved.
Golden Tankard.	
Half Sugar Rose.	

Mailed anywhere in the United States or Canada for \$6

The total, amounting to 5 lbs., is the recommended total allowance of seed per acre. We invite orders for one or more of this Acre Collection.



Improved American Purple-Top Rutabaga. A particularly fine type



A field of S. & W. Co.'s New Golden Eureka Yellow Dent Corn (Improved Leaming), showing vigorous growth

S. & W. CO.'S SELECTED STRAIN OF FIELD CORN

The various field Corns offered on this page are grown for us and have had our personal inspection. Every effort has been made to have stocks well bred and selected. Prices subject to change without notice.

New Golden Eureka Dent Corn

(IMPROVED LEAMING)

This magnificent Field Corn is a decided improvement on the popular variety, Eureka, being fully ten days earlier. It is a tremendous yielder. We have had reports of yields of over 150 bushels of shelled Corn to the acre. The plants grow from 12 to 15 feet high, a great proportion of them bearing two ears to the stalk, the ears averaging 12 to 15 inches long, with 18 to 22 rows of deep rich yellow grains and small cob. Seventy pounds of ears frequently yield 60 pounds of shelled Corn. While not so quick to mature as a Flint Corn, where 100 days of "Corn weather" are assured, it is the best Corn to grow. A very fine variety for ensilage, and frequently produces 25 tons of good Corn silage per acre. **Qt. 25 cts., postpaid, 40 cts.; pk. \$1.50, bus. \$5.50, 10-bus. lots \$5.25 per bus.**

Luce's Favorite Field Corn

The favorite for Long Island, eastern New York, and northern New Jersey. A Dent Corn which is as early as the Flint varieties, yet one that yields two to three ears per plant. The ears are crowded with 8 to 12 rows of broad dented golden kernels. The plant is a strong grower, and the leaves are broad and long, making it an excellent sort for fodder and the silo. **Qt. 25 cts., postpaid 40 cts.; pk. \$1.50, bus. \$5, 10-bus. lots \$4.75 per bus.**

Longfellow Flint Corn

This beautiful eight-rowed Flint often yields two good ears to the stalk. Ears sometimes 15 inches long. Cobs small, kernels of good size. Safe for planting as far north as Massachusetts. Our stock of seed is of the best selection and has given a yield, this past season, of over 100 bushels to the acre. **Selected stock, qt. 25 cts., postpaid, 40 cts.; pk. \$1.50, bus. \$5, 10-bus. lots \$4.75 per bus.**

Insure Your Seeds. Dress them with SEED PRESERVER. It prevents crows and other birds taking the seed; it protects against ground-rot and smut. It is non-poisonous and does not retard germination. No. 1 size can, sufficient for 12-16 bushels of Corn, Oats, Barley, Rye, Wheat, Peas, Beans, Vetches, etc., \$2; No. 2 size, for 30-40 bushels, \$4; No. 3 size, 60-80 bushels, \$7.50.

S. & W. Co.'s White Flint Corn

We have had many inquiries in the past for a White Flint, but have never before been able to offer it, as it has always been a difficult matter to get hold of good seed. Ears 12 to 15 inches long, handsome, with large kernels of a transparent white. The stalks are very leafy and produce two to three ears. **Qt. 25 cts., postpaid, 40 cts.; pk. \$1.50, bus. \$5, 10-bus. lots \$4.75 per bus.**

Fodder Corn

Jumbo Silage Corn. A first-class ensilage variety. Grows 12 to 15 feet high, with mammoth stems in proportion, and an enormous growth of leaves. Under favorable conditions it will produce ears a foot or more long, yielding two of them to a plant. Jumbo Silage Corn is recommended for rich, low lands, when an enormous bulk of fodder may be expected. **Qt. 25 cts., postpaid 40 cts.; pk. \$1.50, bus. \$5, 10-bus. lots \$4.75 per bus.**

Improved Early Horsetooth. Same as Southern Horsetooth, but better selected and earlier. Small stalks; large quantity of foliage. **Qt. 20 cts., postpaid, 35 cts.; pk. \$1.25, bus. \$3.50, 10-bus. lots \$3.25 per bus.**

Evergreen Fodder. A variety of the Sweet Corn especially valuable as green fodder. Sow broadcast, 2 bushels to the acre; in drills 3 feet apart, one bushel per acre. **Qt. 25 cts., postpaid, 40 cts.; pk. \$2, bus. \$6.50, 10-bus. lots \$6.25 per bus.**

Pop Corn

White Pearl. Smooth-grained ears, 4 to 5 in. long, by $\frac{3}{4}$ to $1\frac{1}{4}$ in. in diameter; good for family or market use. **Lb. 20 cts., postpaid 30 cts.; 100 lbs. \$15.**

White Rice (Rat-tooth). White; ears 4 to 5 in. in length, and 1 to $1\frac{1}{2}$ in. in diameter. Kernel pointed. **Lb. 20 cts., postpaid 30 cts.; 100 lbs. \$15.**

Kaffir Corn Selected for Seed

Excellent forage for horses and cattle, and excellent food for poultry. Use 5 pounds per acre. **5 lbs. 75 cts., bus. (60 lbs.) \$5, 100 lbs. \$8.**

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

SOY BEANS

Soy Beans have become an important crop in only a few localities in the United States, but in cases where farmers have learned how to utilize them to best advantage they have proved to be a crop of high value. They are especially valuable for mixing with corn for silage, for the production of hay, and for use as pasture, especially for hogs. They possess an advantage over cowpeas in that the growth is erect, and they are therefore easily harvested. Some of the taller sorts may be harvested with an ordinary grain binder. They are also valuable as a crop for plowing under for green manure, to add humus and nitrogen to the soil. They can also be planted with cowpeas, on account of their erect growth. They support the vines of cowpeas.

During the past years they have been grown with success on many of the farms in New Jersey and New York. Planted the latter part of May in the latitude of New York the Beans are ready for harvesting in 100 days. Planted in rows 2½ feet apart, 6 to 8 plants to the foot of row, requiring three pecks to the acre, they yield fifteen to twenty tons of fodder.

Mammoth Yellow Soy Beans. Qt. 30 cts., postpaid 45 cts.; pk. \$1.75, bus. \$6, 10 bus. \$57.50.

CANADA FIELD PEAS

"Peas could be made to bring more nitrogen to the soils of this country every year than is now purchased annually by the farmers at the cost of millions of dollars."—Yearbook of the U. S. Department of Agriculture.

The above statement, coming as it does from a reliable source, gives the progressive farmers of this great country something to think about. Grain has been grown year after year on many farms, sapping the life and fertility of the soil. Here is a crop which is not only profitable, but will return to the land the much-needed nitrogen. Peas are second only to Clover in their soil-enriching properties and can be grown under almost any condition of soil or climate. There is always a ready market for Peas, or they can be profitably ground and fed to stock. The vines make rich, nutritious hay. If fed to milch cows, when in a green state, pods, vines and all, the flow of milk will be almost doubled.

Peas are a paying crop and can be profitably planted in many ways.

First.—When sown alone about three bushels are required to the acre. They can be matured and threshed when dry. The yield will vary from 30 to 60 bushels an acre.

Second.—Peas and oats are frequently sown together, using 1½ bushels of Peas and 2 bushels of oats to acre. By so doing a double crop can be secured. They can be threshed at one time and readily separated in cleaning.

Third.—They can be sown alone or with oats and fed green. It is surprising the amount of fodder which is produced in this way. If sown together, the Peas should be sown first and plowed under about 4 inches deep; the oats may then be drilled in.

Fourth.—For plowing under when Peas and oats are sown together and each are "in milk," they are nearly equal in value to clover, used in the same way, to enrich the soil.

Qt. 20 cts., postpaid 35 cts.; pk. \$1.25, bus. \$4.50, 10 bus. \$42.50. On orders of 100 bus. or over, prices on application

COWPEAS

Used for improvement of soils by plowing under; also makes valuable hay, when sown alone or with soy beans, during May, June or July, at the rate of two bushels to acre or one bushel of soy beans and one of Cowpeas, broadcast or in a wheat drill.

Black Eye. Large black-eye Peas; make a profitable crop for picking the dry Peas for sale in our markets during the winter. Qt. 30 cts., postpaid 45 cts.; pk. \$1.75, bus. \$6, 10 bus. \$57.50.

New Era. The Peas are dull lead-colored, not quite so large as Whippoorwill, but vine is somewhat stronger; earlier than other varieties. Qt. 25 cts., pk. \$1.50, bus. \$5, 10 bus. \$47.50.

Whippoorwill. An early, bunch-growing Pea; has brown-speckled seed. Qt. 25 cts., pk. \$1.50, bus. \$5, 10 bus. \$47.50.



Soy Beans

VELVET BEAN (*Dolichos multiflora*)

Largely grown in the South and used as a fertilizing plant for turning under. Both vines and pods are eaten by live-stock, and the Beans can be ground either with or without the pods and fed instead of corn or oats, or can be mixed with them. **Pk. \$2, bus. \$7.50.**

DWARF ESSEX RAPE

The true Dwarf Essex Rape is valuable as a fattening food for pasturing sheep in autumn. It is particularly adapted as a "catch-crop," for it grows best late in the season. In the Northern States it can be sown at any time from May until the end of August, but in the Southern States it should not be sown until September or October, for winter pasture. Its fattening properties are said to be twice as good as clover. Sow ten to twelve pounds to the acre broadcast, or four to five pounds per acre in drills 15 inches apart. Grows vigorously. **Lb. 20 cts., 10 lbs. \$1.75, 100 lbs. \$15.**

THOUSAND-HEADED KALE

An exceedingly valuable food for sheep and lambs. An efficient method of improving light land is to allow sheep to feed this crop off the ground; the manure of the animals and their treading will be found to have an excellent effect. The crop may be drilled in in rows 2 feet apart, and the plants hoed to stand a foot apart, or occasionally the seeds are sown in a nursery bed and the seedlings transplanted. In the first case 6 pounds of seed per acre is used, and in the second 2 pounds will be found sufficient. **Lb. \$2.**

SUNFLOWER, MAMMOTH RUSSIAN

Highly valued as an excellent and cheap food for fowls. It is the best egg-producing food known. It can be raised cheaper than corn. Four pounds of seed will plant an acre. **Lb. 15 cts., 10 lbs. \$1.35, 100 lbs. \$12.**

SAND or WINTER VETCH (*Vicia villosa*)

Sometimes called Hairy Vetch. This is a very valuable forage plant, and is rapidly becoming more popular each year. It is very hardy, is valuable as a winter cover-crop to prevent leaching, and for forage and fertilizing purposes. It is an annual, but re-sows itself and will come up year after year on the same ground. It succeeds well on nearly all soils and thrives surprisingly on poor, light land, and will endure extremes of drought, heat and cold. It improves the soil, being a great nitrogen-gatherer. It belongs to the pea family, but the vines are much longer and the foliage is more abundant. May be sown either in the spring or fall with about half a bushel of rye or oats for support. It grows rapidly and is particularly valuable in sections where clover does not thrive. In the North it remains green all winter under the snow, and it is invaluable for early pasturing or soiling. The Department of Agriculture estimates the value of an acre of this Vetch plowed under equal to commercial fertilizer at the rate of from \$16 to \$40 an acre. When sown in April or May it can be cut in July, the second growth affording excellent pasture during the summer. The yield of green fodder is from twelve to twenty tons an acre. If sown alone use 1½ bushels to acre, but is best if sown 1 bushel Vetch with ½ bushel oats, as per illustration. **Lb. 30 cts., 10 lbs. \$2.75, 100 lbs. \$25; bus. (60 lbs.) \$15.**

Spring Vetch, or Tares (*Vicia sativa*)

Highly valuable for soiling or for green manuring. Sometimes grown with oats for mowing and feeding to stock. Use 2 or 3 bushels to acre broadcast, or 1 to 2 bushels in drills. **Lb. 25 cts., 10 lbs. \$2, 100 lbs. \$15; bus. (60 lbs.) \$10.50.**

EARLY AMBER CANE

Most valuable for dairy cows. The leading dairy farmers of the Northwest generally regard sugar cane, or sorghum, as the best of all fodder plants today for their purpose. Sow any time from May 15 to July 15, 12 to 15 pounds per acre, in rows, and cultivate the same as corn. Or, if sown broadcast, use 50 pounds per acre. **Lb. 20 cts., 10 lbs. 90 cts., 100 lbs. \$8.**

BEARDLESS SPRING BARLEY

Its straw is good for green feed or, when cured, as hay. The grain in the hull is excellent poultry-feed and with the hull removed is used in the household. It is a quick-growing crop and very nutritious. Sow broadcast 1½ to 2 bushels to the acre from May 15 to July 1. Our seed stock is carefully selected and grown especially for us in Genesee County, New York. Makes better straw than the bearded, and will yield 50 bushels of grain to the acre. **Qt. 20 cts., pk. \$1.25, bus. \$4.**

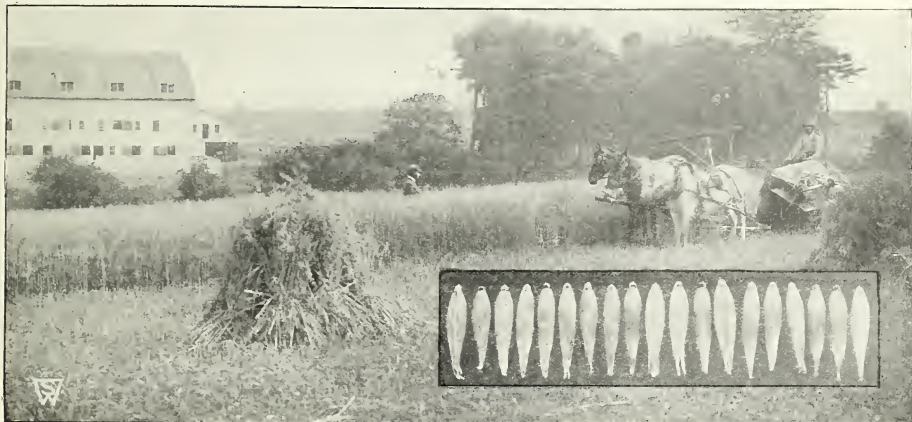
SUDAN GRASS

Sudan Grass belongs to the sorghum family. It is an annual, lacking underground root-stalks. Two cuttings can be obtained under favorable conditions. The yield varies from one to eight tons of cured hay to the acre. Sudan Grass makes its heaviest yield on a rich loam, but it has been grown successfully on almost every class of soil, from heavy clay to light sand. The ground should be firm and well drained.

Sow Sudan Grass after the soil has become warm, about corn-planting time. **Sow 30 to 40 pounds to the acre, broadcast, about May 1.** It may be cut in July, just before heading out. This gives time for a second growth to reach the stage where it can be used for pasturage or cut for hay. Our seed has been grown in the Rocky Ford district, under irrigation, and is the finest quality obtainable, generally weighing as much as 40 pounds to the bushel. **Lb. 25 cts., 10 lbs. \$2.25, 100 lbs. \$20.**



Sand or Winter Vetch and Oats Sown Together



Field of Storm King Oats

Prices subject
to change

SEED OATS

For grain, $2\frac{1}{2}$ bushels to the acre; for forage, 3 bushels, or, with Canada Peas, 1 to $1\frac{1}{2}$ bushels

Sold at the standard weight of 32 pounds to the bushel. Several varieties of Oats offered below weigh up to 50 pounds to the measured bushel, but all Oats are purchased and sold at the standard weight of 32 pounds to the bushel.

Storm King. An exceptionally fine grade of the Long's Tartar. Kernels are large and plump. The straw is long and stout, and does not easily lodge. Heads are from 8 to $10\frac{1}{2}$ inches in length. Our grower in New Jersey reported a yield of over 100 bushels to the acre. Suitable for all soils. Note size of the grains in illustration above. **Pk. 85 cts., bus. (32 lbs.) \$2.75, 10 bus. \$25, 100 bus. \$2.45 per bus.**

Welcome Oats. One of the heaviest, handsomest, and most productive white varieties grown. It stools heavily, with extra-strong, straight straw, standing well. Succeeds well in a wide range of climate, and under a great variety of soils and methods of culture. **Pk. 60 cts., bus. (32 lbs.) \$1.75, 10 bus. \$16, 100 bus. \$1.50 per bus.**

White Tartar. This is a western Oat which, when grown in the East this past year, has done remarkably well. Its yield was well in excess of the Swedish and Lincoln varieties. It is a heavy Oat, with long, stout straw, which stands up well without lodging. The heads are large; the grains are thick and very heavy, with a thin hull. Our seed is selected and grown especially for us. **Pk. 75 cts., bus. (32 lbs.) \$2.50, 10 bus. \$22.25, 100 bus. \$2 per bus.**

Great Mogul. (Black.) A giant among Oats. Holds the highest record for yield of any black Oat on clay soils. Recommended particularly where an Oat is needed for feeding green: for this purpose its wide luxurious foliage and its tall, stiff, thick stems make it invaluable. We offer imported certified seed. **Pk. \$1.50, bus. (32 lbs.) \$5, 10 bus. \$47.50, 100 bus. \$4.50 per bus.**

HUNGARIAN MILLET

For good low grounds on rich soil, this makes even a more valuable crop than German Millet. It is considered equal in nutritious qualities to timothy hay. It is very important, in procuring Hungarian Millet, to get the true seed, as common Millet resembles it very closely, and is frequently found mixed with Hungarian. This lessens both the yield and the value of the crop. Sow from the first of May to the end of July at the rate of 1 bushel per acre. Bushel weighs 48 pounds. **Lb 15 cts., 10 lbs. \$1, 100 lbs. \$9.**

JAPANESE MILLET

This wonderful Millet yields possibly more fodder than any other forage plant that requires so little to sow an acre. Frequently as high as 12 tons of green food have been obtained from an acre. It is somewhat coarse in texture, growing sometimes as high as 8 feet; it is, however, ideal for silo or hay purposes. If sown early in May, it may be cut twice in one season. It branches out at the roots, and more than 12 lbs. per acre broadcast cannot be sown to advantage. Sow any time from May 1 to June 15. **Lb. 20 cts., 10 lbs. \$1.25, 100 lbs. \$10.**

JAPANESE BUCKWHEAT


This is a superior variety and more prolific, and yields double the weight per acre of other sorts. The grains are nearly twice as large as those of Silver Hull, and of fine color. This variety is always in demand, millers preferring it to all other sorts, and it makes the finest flour. Sow about the middle of June, broadcast, 1 bushel to the acre. **Qt. 20 cts., pk. \$1, bus. \$3.**

SPRING WHEAT

Saskatchewan Fife. This is the favorite sort in this locality, and is used on account of its prolific, vigorous growth and early qualities. It often produces 50 bushels per acre. Sow in April or May, $1\frac{1}{2}$ to 2 bushels per acre broadcast or in drills. **Qt. 20 cts., pk. \$1.25, bus. \$4.**

SPRING RYE

Used as a catch crop to sow where winter grain has failed. **Qt. 20 cts., pk. \$1.25, bus. \$4.25, 5 bus. and over, \$4 per bus.**

 **PRICES ON GRASS AND CLOVER SEED ARE SUBJECT TO CHANGE**



Medium Red Clover

Medium Red Clover

(*Trifolium pratense*)

This is regarded as the most valuable of the Clover family. It makes two crops each year. The first is usually cut when it is in blossom for hay; the last crop may be harvested for seed, cut for hay, or plowed under to add fertility to the soil. It may be sown either in the spring or fall, and if no other grasses are used, at the rate of from ten to fifteen pounds to the acre, according to quality of seed used and condition of the soil. Clover adds greatly to the fertility of the land on which it is grown. It does not exhaust the soil, but enriches it. It pays always to buy the best grade of Clover seed which can be obtained. **Lb. 50 cts., 10 lbs. \$4.50, 100 lbs. \$40.**

Mammoth Red Clover

(*Trifolium pratense perenne*)

Cow Grass, or Pea-Vine Clover. Grows larger and lasts longer than the preceding variety, and by some is considered superior to it for forage. Valuable for reclaiming exhausted land by plowing under as green manure. It is perennial in its character and harder than the medium. Sow 10 to 15 pounds to the acre. Extra-large, plump seed. **Lb. 55c., 10 lbs. \$5, 100 lbs. \$45.**

Alsike, or Swedish Clover

This is one of the hardiest varieties known. It is perennial and does not winter-kill. It will do better on moist land than any other variety of Clover, and is suitable for either hay or pasture. When sown with other grasses, it forms a thick undergrowth and greatly increases the yield. It is frequently sown both with Medium Red Clover and with Timothy, and the quality of hay thus produced is excellent. It is finer and more leafy than Medium Clover, although it does not grow so high. It is very fine for honey bees, and cattle prefer it to other Clovers. **Lb. 50c., 10 lbs. \$4.50, 100 lbs. \$40.**

White Dutch Clover

(*Trifolium repens*)

The best variety for lawns, as it forms a close herbaceous and remains green throughout the season. **Lb. 90 cts., 10 lbs. \$8.50, 100 lbs. \$80.**

These prices of Field Seeds subject to change without notice. All orders in large quantities subject to confirmation of House

Crimson or Scarlet Clover

(*Trifolium incarnatum*)

It can be seeded at any time from June to October, at the rate of fifteen to twenty pounds to the acre, and makes the earliest possible spring pasture, blooming the latter part of April or May, and for feeding as hay, should be cut just before coming into full bloom. **Lb. 25 cts., 10 lbs. \$2.25, 100 lbs. \$20.**

White Bokhara, or Sweet Clover

(*Melilotus alba*)

Farmers are sowing this Clover to quite a considerable extent on light, sandy land, where other Clovers do not take well. They hope, by sowing this Bokhara Clover, to get a good growth to turn under to improve the land and also to inoculate the soil so that it will produce good crops of Crimson Clover and Alfalfa from seedlings of these to follow the Bokhara. For feed or forage it should be cut when quite young, for when it gets old, cattle do not relish it, and it is not of very high nutritive value. It is also largely used for sowing for bees. **Lb. 25 cts., 10 lbs. \$2.25, 100 lbs. \$20.**

Alfalfa, or Lucerne

Alfalfa possesses a wonderful root system, deep and strong; consequently it is a great drought-resister. The plant increases soil-fertility by transforming the free nitrogen of the air into soluble nitrates; and as a plow-in crop it is excellent, adding materially to the humus in the soil. Our seed is obtained from those sections where Alfalfa has endured the extreme cold of winter in high altitudes. **Lb. 55 cts., 10 lbs. \$5, 100 lbs. \$45.**

Grimm Alfalfa

There is some disagreement among investigators as to how Grimm Alfalfa obtained its hardness, but there is no difference of opinion that it is hardy. From the appearance of the seed, this Alfalfa cannot be distinguished from other varieties; the root-system, however, is more branched. Because of this root-system, we believe it will grow well over a hardpan soil, and is adapted to a wetter soil than the other Alfalfa. We recommend 15 pounds of the seed, sown broadcast, to the acre, as its stooled habit requires less seed to be sown than other Alfalfa offered. The quantity of seed of this variety obtainable is limited and we offer it subject to being unsold. **Lb. \$1, 10 lbs. \$9.50, 100 lbs. \$90.**

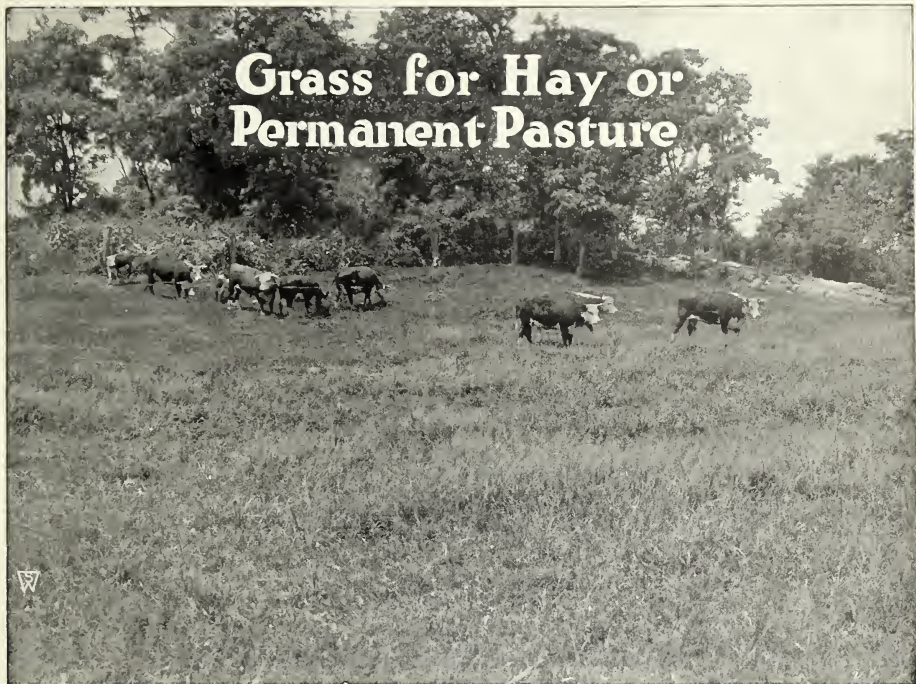


Grimm Alfalfa

Common Alfalfa

The Grimm in comparison with common Alfalfa. This photograph was furnished by Prof. Philo K. Blinn, Alfalfa Specialist of the Experiment Station at Fort Collins, Colorado, showing typical Alfalfa plants grown under exactly the same conditions.

Grass for Hay or Permanent Pasture



For every different kind and condition of soil there are a large number of grasses, either indigenous or introduced, which are especially suitable. Some sorts do best on high ground and in dry weather; others prefer plenty of moisture. Some mature so early and others so late that from the beginning of spring until winter sets in there is no time when one species or another is not at its best. From these considerations, the importance of sowing many varieties for pasture and meadow purposes will be apparent, consisting of the following varieties: Orchard Grass, Meadow Foxtail, Sheep's Fescue, Rhode Island or Creeping Bent, Hard Fescue, Sweet-scented Vernal (True Perennial), Meadow Fescue, English Rye Grass, Italian Rye Grass, Red Top, Timothy, Red and Alsike Clover, blended in proportions which we have found, give the most satisfactory results.

On ordinarily fertile soil 80 pounds of this mixture are sufficient to seed an acre, but where the land is poor a larger quantity will be necessary.

For Hay and Permanent Pasture for Light Soils.
For Hay and Permanent Pasture for Medium Soils.
For Hay and Permanent Pasture for Heavy Soils.

For Orchard and Shady Places.
For Hay Only. Specially recommended for large hay crop.
For Pasture Only. Will stand close cropping without injury.

Lb. 40 cts., 10 lbs. \$3.50, 100 lbs. \$30

S. & W. CO.'S WHEELBARROW GRASS SEEDERS (Weight, 45 to 50 pounds)

On the market over thirty years and over 200,000 sold. For sowing all kinds of grass seeds broadcast, clover, timothy, alfalfa, Hungarian millet, rape and all small seeds. Also all chaffy seeds like red top, orchard grass, and clean blue grass, bent grass, any quantity per acre desired. They are no experiment, and are guaranteed to do an even, accurate, first-class job of seeding. **Price (14 feet sowing area) \$18.50.**



STEEL DISC SMOOTHING HARROW

The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches in diameter. **Price \$55. Price subject to change without notice.**



S. & W. Co.'s Wheelbarrow Grass Seeder

GRASS SEEDS OF KNOWN PURITY AND PROVED VITALITY

The Grass Seed problem, whether applied to the farm or lawn, is one that can be rightly solved only when the grower fully takes into consideration four essential details: SEED, SOIL, LOCATION, and CLIMATE. Our Lawn Mixtures are prepared with a thorough knowledge of the grasses indigenous to most soils within 1,000 miles of New York. Our STAIGREEN is strictly our best mixture; our GOLF MIXTURES for putting-greens or fairways; our TERRACE SOD, SHADY PLACE, and HAY and PERMANENT PASTURE MIXTURES are composed of grasses of the highest germination and purity, and are all prepared by an expert who has made a life-study and a hobby of this particular branch of our business. Advice regarding mixtures for special locations freely given on request.

GENERAL LIST OF GRASSES

*The "Ligule" is a small membranous lip found on the inside of the leaf at a point where the leaf and stem part company. If a grass shoot be cut across with a knife, the leaves will be found folded flat with some varieties and rolled in others. The ligule and the manner of folding are important means whereby varieties may be distinguished.

†Indicates desirability of using mixtures rather than one variety for turf.

‡Dwarf habit indicates suitability of a variety for turf.

VARIETY	DESCRIPTION* Enables you to distinguish varieties in your turf	PERIOD OF MAXIMUM DEVELOPMENT †	USE	SOIL SUITABLE	Height, in. Weight, per Bushel	PRICE		
						Lb.	10 lbs.	100 lbs.

AGROSTIS VARIETIES OR BENTS

Creeping Bent (<i>Agrostis species</i> ; Florin; Mixed Bents).	"Creeping Bent," a name used for many years for seed collected in Central Europe and consisting of a mixture of <i>A. vulgaris</i> , <i>A. canina</i> , <i>A. palustris</i> .	Early fall	Makes velvet-like, thick, beautiful, soft putting-greens and lawns; used largely in conjunction with Red Fescue.	All; especially light, moist land.	12			
			<i>Superfine Quality</i>		24	\$2 50	\$22 50	\$200 00
			<i>Fine Quality</i>		16	1 50	13 50	125 00
Colonial Bent (<i>A. tenuis</i> ; <i>A. vulgaris</i>).	Leaf-blades very narrow, flat; plants slightly creeping. Forms a dark green turf of velvety texture. The young leaves are rolled in the bud.	Early fall	Splendid for putting-greens and fine lawns. Identical with Rhode Island Bent.	All soils.	18	1 75	16 50	150 00
Red Top (<i>A. palustris</i> ; <i>A. alba</i>).	Leaf-blades narrow, becoming very narrow with turf cultivation; plants slightly creeping. The young leaves are rolled in the bud. Prominent ligule.	Early fall	Valuable for fair-greens and tees, but Creeping and Colonial Bent being finer and more permanent are recommended for putting-greens. Splendid for hay and pasture fields. <i>Superfine Quality</i>	All soils.	18			
			<i>Fine Quality Unhulled</i>		36	40	3 75	35 00
					18	25	2 00	17 00

POA VARIETIES OR MEADOW GRASSES

Canadian Blue Grass (<i>P. compressa</i>).	Leaf-blades narrow, flat; plants slightly creeping; stems flattened; color gray-green.	Early summer	Valuable for tees and fairways; not much used for greens. Kentucky Blue Grass being more recommended. Good bottom grass for hay and pasture.	All; hard clays and those with lime.	12	18	\$0 30	\$2 75	\$25 00
Kentucky Blue Grass (<i>P. pratensis</i> ; June Grass).	Leaf-blades very narrow, flat; plants slightly creeping. Color a deep vivid green. Somewhat slow, being more effective the second year than the first. Ligule short and thick. The young leaves are folded in the bud.	Early summer	Ideal ingredient in fairway mixtures; frequently used for putting-greens. Largely employed for lawns; makes the best, sweetest, and most nutritious pasture.	All; particularly those containing excess of lime.	12				
			<i>Superfine Quality</i>			27	50	4 75	45 00
			<i>Fine Quality</i>			21	45	4 00	37 50
Rough-stalked Meadow Grass (<i>P. trivialis</i>).	Leaf-blades narrow, flat; plants not creeping. The young leaves are folded in the bud. Lower surface of the leaves and very glossy.	Early summer	Occasionally used for golfing purposes or for lawns, but is more recommended for pasture and hay.	All soils, including sandy.	12	26	65	6 25	60 00
Wood Meadow Grass (<i>P. nemoralis</i>).	Leaf-blades narrow, flat; plants not creeping. A medium dark green. The young leaves folded in the bud. Leaf joints black.	Late spring	Suited particularly for putting-greens, fairways, or lawns under trees. Included also in all good hay and pasture mixtures for shade.	All of medium texture.	12	20	75	7 00	65 00

FESTUCA VARIETIES OR FESCUES

Hard Fescue (<i>F. duriuscula</i>).	Leaves wire-like and stiff, not flat; plants tend to grow in tufts.	Late spring	Must be carefully balanced when in golf mixtures, otherwise may give "cuppy" lies.	Sandy, thin, dry soils	12	20	\$0 50	\$4 75	\$45 00
Red Fescue (<i>F. rubra</i>).	Leaves wire-like and stiff, not flat; plants have a tendency to creep, but frequently form tufts. Base of shoot reddish.	Summer	Excellent for putting-greens, tees, and fairways; also hay- and pasture-fields. Gives fair results under trees. Sometimes attacked by fungus.	Satisfactory on dry, poor land.	12	27	65	6 25	60 00

STUMPP & WALTER CO.'S SELECTED SEEDS

GENERAL LIST OF GRASSES, continued

VARIETY	DESCRIPTION* Enables you to distinguish varieties in your turf	PERIOD OF MAXIMUM DEVELOP- MENT	USE	SOIL SUITABLE	Height in ft. Uncut	Weight Per Bushel	PRICE		
							Lb.	10 lbs.	100 lbs.
FESTUCA VARIETIES OR FESCUES, continued									
Sheep's Fescue (<i>F. ovina</i> ; English Fescue.)	Leaves wire-like and stiff, not flat. Ligule reduced to short ears.	Late spring	Occasionally used on putting- greens, although the fine- leaved variety is preferable. Excellent for fairways and tees.	Any ex- cept wet land.	12	16	\$0 50	\$4 75	\$45 00
Fine-leaved Sheep's Fes- cues (<i>F. ovina angustifolia</i> ; <i>F. capillata</i> ; <i>F. tenuifolia</i>).	Leaves wire-like and stiff, not flat; very fine. Color a beautiful dark green.	Late spring	Used on putting-greens and tees. Gives fair results where situation is shaded.	Any dry soil.	12	22	65	6 25	60 00
Various-leaved Fescue (<i>F. heterophylla</i>).	Bottom leaves are bristly; upper leaves flat. Fine dark green. Plants of a tufted habit, though slightly creeping.	Late spring	Used to a limited extent on tees and fairways; also of value as an ingredient in hay and pasture mixtures.	L i g h t soils, rich in humus.	15	15	65	6 25	60 00
Meadow Fescue (<i>F. pra- tensis</i>).	Leaves very broad and flat. Base of leaf-sheaths red. The young leaves are rolled in the bud.	Summer	Useful to the golfer only for the "rough." Gives an abun- dance of fodder as a hay or pasture grass.	Any soil unless water- logged.	36	27	50	4 75	45 00
Tall Fescue (<i>F. elatior</i>).	Leaves medium broad and flat.	Summer	Of interest to the golfer for bunkers or the "rough." Ex- cellent for hay and pasture.	Any.	48	22	80	7 75	75 00

LOLIUM VARIETIES OR RYE GRASSES

English Rye Grass (<i>L. perenne</i>).	Leaves narrow and flat, smooth and shining; leaf- bases red. Usually lives three years. The young leaves are folded in the bud.	Summer	A rapid grower and of value as a "nurse grass" under some conditions; particularly use- ful where a fairway is needed quickly; valuable for hay and pasture.	Medium soil well supplied with mois- ture.	24	28	\$0 25	\$2 25	\$20 00
Pacey's Perennial Rye Grass (<i>L. perenne Pacey</i>).	A smaller - seeded, finer - leaved, smaller plant than the above.	Summer	Superior to the above for turf purpose; claimed to be more resistant to cold.	As above.	24	30	30	2 50	22 00
Italian Rye Grass (<i>L. Itali- cum</i> ; <i>L. multiflorum</i>).	An annual grass with a ten- dency to grow in tufts; tall; broad, flat leaves. Biennial. Base of sheaths red. The young leaves are rolled in the bud.	Early summer	In the North, occasionally val- uable as a "nurse grass." Be- ing hardy and quick, it pro- tects more delicate slower sorts; disappears after one year. In the South makes excellent winter turf, follow- ing Bermuda Grass.	Medium soil well supplied with mois- ture.	36	22	25	2 25	20 00

SUNDRY VARIETIES

Bermuda Grass (<i>Cynodon dactylon</i> ; <i>Capriola dacty- lon</i> , Scutch Grass).	A medium broad-leaved grass, strongly creeping. Does not survive winter north of Pennsylvania.	Early fall	Valuable in the South for put- ting-greens, fair-grounds, lawns; also for pastures and hay-fields. Binds sand.	All soils.	12	36	\$0 80	\$7 75	\$75 00
Crested Dog's-tail (<i>Cy- nosurus cristatus</i>).	Leaves narrow and flat. Tends to grow in tufts. The young leaves are folded in the bud. Base of leaf-sheaths yellow.	Early summer	Of limited usefulness in this country, except as an occa- sional ingredient in tee and fair-green mixtures.	Hard, dry loams.	24	30	70	6 75	65 00
Sweet Vernal (<i>Anthoxan- thum odoratum</i>).	Narrow, flat leaves. The young leaves are rolled in the bud; leaf-sheaths hairy.	Late spring	Very fragrant when drying. Occasionally used in mixtures of seeds for hay-fields.	All soils.	18	10	95	9 25	90 00
Meadow Foxtail (<i>Alopec- urus pratensis</i>).	Medium broad, flat leaves. Flower-heads resemble timothy. Base of leaf- sheaths violet. The young leaves are rolled in the bud.	Late spring	Useful to the golfer only for bunkers and the "rough." As a field-grass gives large yields early.	All soils.	36	10	95	9 25	90 00
Tall Oat Grass (<i>Avena elatior</i> , <i>Arrhenatherum elatius</i> ; False Oat Grass).	Very broad leaves; plant has the appearance of a slender, small oat.	Early summer	Useful to the golfer only for the "rough" or for bunkers. Val- uable for hay and pasture.	All soils.	48	14	45	4 25	40 00
Orchard Grass (<i>Dactylis glomerata</i> ; Cockfoot).	Large plant, bluish green in color, with flattened leaf- bases. Ligule prominent. The young leaves are folded in the bud.	Late spring	Interests the golfer only for the "rough." Widely used for hay and pasture, for which purposes it is of additional value in that it thrives under trees.	All soils.	48	14	45	4 25	40 00
Timothy (<i>Phleum pratense</i> ; Herd's Grass; Cat's Tail).	Very broad leaves; coarse, vigorous plant. Base of stem bulbous. Ligule small, pointed. Young leaves rolled in the bud.	Summer	Useful to the golfer for the "rough." The most impor- tant American grass for hay and pasture.	Rich land.	36	45	25	2 00	18 00



The seventh green on the beautiful Ekwonok Golf Course at Manchester, Vt. Grass Seed supplied by Stumpp & Walter Co. for nine successive seasons

Grasses for Golf Courses

When you buy Grass Seed for golf courses, either for putting-greens, fair-greens, or outlying grounds, great care must be taken to select only such seeds as will do best for the purpose.

First.—See that you get the proper varieties, for very often grasses are used that are not fit to make the proper sod. This means disappointment in appearance, and endless work in trying to rid the greens of such grasses.

Second.—The quality of the seed. This should always be bought with the known germination and purity.

Third.—If your soil is sandy, clayey, moist or dry, this all makes a difference; and where seeding is done, it is always best to have only such grasses in the mixture as will give the best satisfaction. This information can always be obtained by consulting us.

Our Grass Seed Department is second to none; we always have in great quantities such valuable Grasses as Creeping Bent, Colonial Bent, Red Fescue, and all other varieties of Grass Seeds that are generally used on golf courses, whether for putting-greens, fair-greens, or outlying grounds.

Putting-Green Seeds

If required for new work, or where the entire seeding of all greens is necessary, it would be best to consult us for suggestions as to the formula for the soil and location. But for average conditions of soil and aspect, the following mixtures are always in stock, ready for immediate shipment.

STANDARD PUTTING-GREEN MIXTURE. Composed of Mixed Bent, Fancy Recleaned Red-Top, Fine-leaved Sheep's Fescue, and Cheving's Fescue—all of the very highest purity and germination. **Lb. 60 cts., 5 lbs. \$2.75, 25 lbs. \$13, 100 lbs. \$50.**

SPECIAL PUTTING-GREEN BENT FORMULA. "Mixed Bent," containing Velvet Bent and Carpet Bent, formerly widely sold under the name of "Creeping Bent," is gathered in Central Europe—it is exceedingly scarce and high-priced. On account of its wonderful fineness and suitability to certain conditions, it is sometimes advisable to sow a mixture containing an increased proportion of this fine grass. We consequently offer a formula that is specially high in "Mixed Bent." **Lb. 75 cts., 5 lbs. \$3.50, 25 lbs. \$17, 100 lbs. \$65.**

An Appreciation

We note the following in *The Sun and New York Herald* of August 8, 1920: "One of the best golf courses in the Metropolitan district is that of Hollywood at Deal, N. J., where the international professional best ball match between the American and British teams of Hagen and Barnes and Ray and Varden was played last Sunday. Here is a course, the soil and turf of which are as close to perfection as there is any need for these to come."

We note the following in *The Globe* of September 22, 1920: "Both Varden and Ray have agreed that Hollywood is the best course that they have ever seen in America, and they have played a lot of them."

NOTE.—On the Hollywood course the Stumpp & Walter Company's Seeds and Fertilizers have been used exclusively, and their advice followed, for the past five years.



No. 3 Putting-Green, Fairview Country Club.
Stump & Walter Seeds used.



No. 17 Putting-Green, Hollywood Golf Club.
Stump & Walter Seeds used.



Home Green, Knollwood Country Club.
Stump & Walter Seeds used.



Norwood Golf Club.
Stump & Walter Seeds used.

Stump & Walter Co's **GRASS SEEDS FOR GOLF COURSES**

FAIR-GREEN MIXTURE

The variety of Grass that grows naturally on the particular soil should form the basis of a Fair-Green formula. Where an extensive seeding is to be done, we always like to recommend and supply a special formula, according to the requirements of the soil. For limited seedings, our standard formula is good, and we know it will give satisfaction; it is well balanced, and the Grasses of which it is composed will give an even, tough, and lasting turf. **Lb. 45 cts., 5 lbs. \$2, 25 lbs. \$8.75, 100 lbs. \$35.**

SPECIAL MIXTURE FOR TEES

Our formula includes only those varieties which will stand rough usage and recuperate quickly after excessive wear. **Lb. 45 cts., 5 lbs. \$2, 25 lbs. \$8.75, 100 lbs. \$35.**

YARROW

(*Achillea Millefolium*)

A deep-rooting, drought-resisting plant with delicate, fern-like leaves, sometimes used on tees or putting-greens. May be sown alone (when one pound is sufficient for a plot of ground 40 by 40 feet) or in combination with Grass Seeds. **Lb. \$2.50.**



No. 4 Putting Green, Deal Golf Club.
Stump & Walter Seeds used.



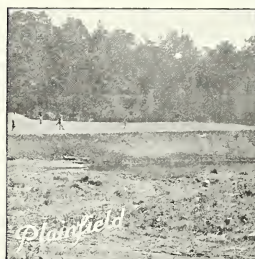
No. 5 Green, New Course, Morris County Country Club. Stump & Walter Seeds used.



No. 15 Green, New Course, Essex County Country Club. Stump & Walter Seeds used.



No. 18 Green, Canoebrook Country Club.
Stump & Walter Seeds used.



No. 3 Water Hole, Plainfield Country Club.
Stump & Walter Seeds used.

HOW ABOUT YOUR LAWN?



Staigreen LAWN SEED BEST ON EARTH

25-Pound *versus* 14-Pound LAWN SEED

Many low-priced Grass Seed mixtures weigh only 14 pounds per bushel. This indicates either a good proportion of chaff or some of the real good varieties in the rough state, not properly cleansed so as to leave only the vital part and less of the chaff or shell—in other words, so many less seeds to the quart or pound that will germinate and grow real grass.

Why Not Buy the Re-cleaned Kind—

A mixture of grasses weighing 25 pounds per bushel, of high germination and purity, permanent in nature, the varieties carefully proportioned so that they will succeed one another in brightness of foliage, with the result that the lawn, even in its first year, will have a bright, rich green color from early spring until covered by snow?

Stump & Walter Co.

One Pound will sow a
Plot 20 x 20 feet
Sow 80 Pounds to the
Acre

30 and 32 Barclay St.
New York

For General List of Grasses, See Pages 50 and 51

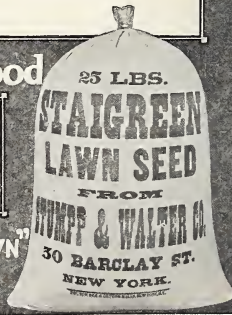
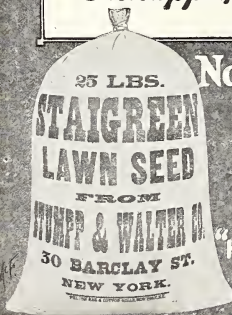
Not How Cheap, But How Good

DELIVERED ANYWHERE IN UNITED STATES

Lb.	2½ lbs.	5 lbs.	12½ lbs.	25 lbs.	100 lbs.
50 cts.	\$1.20	\$2.30	\$5.50	\$10.50	\$40.00

WHEN CASH ACCOMPANIES THE ORDER

"HOW TO BUILD A PERMANENT LAWN"
PAMPHLET FREE IN EVERY BAG



Grass Seed SPECIAL MIXTURES for Various Situations

The following mixtures are prepared for various situations. Each mixture is prepared with a thorough understanding of the grasses best suited for its purpose.

High-Grade Lawn Seed

FOR GENERAL LAWN PURPOSES

Our High-Grade Lawn Seed is composed of the finest reclaimed grasses, care being taken to include various varieties of grasses of the highest purity and germination, best suited for the lawn.

The varieties are carefully proportioned so that they will succeed one another and give the lawn that much-desired green, velvety appearance throughout the summer. The remarkably heavy demand for our lawn seed this past year proves the quality.

One quart will sow 15 x 15 feet, or 225 square feet; four bushels to the acre—for renovating old lawns, two bushels. **Qt. 35 cts., 4 qts. \$1.15, 8 qts. \$1.90, bus. \$6.50, 10 bus. \$60.** Charges prepaid when cash accompanies order.

Weights 22 pounds per bushel

Terrace Sod Lawn Seed

FOR TERRACES, HILLSIDES AND EMBANKMENTS

To Grass a Bank or Terrace. For each square rod take two quarts of lawn grass seed and mix it thoroughly with 6 cubic feet of good, dry garden loam. Place it in a tub, and add liquid manure, diluted with about two-thirds of water, so as to bring the whole to the consistency of mortar. The slope must be made perfectly smooth, and then well watered, after which the paste should be applied, and made as even and thin as possible.

A special mixture of grasses best suited for sowing on terraces and side-hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out, that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich, green turf throughout the season. **Qt. 45 cts., 4 qts. \$1.50, 8 qts. \$2.50, bus. (20 lbs.) \$9, 10 bus. \$85.** Charges prepaid when cash accompanies order.



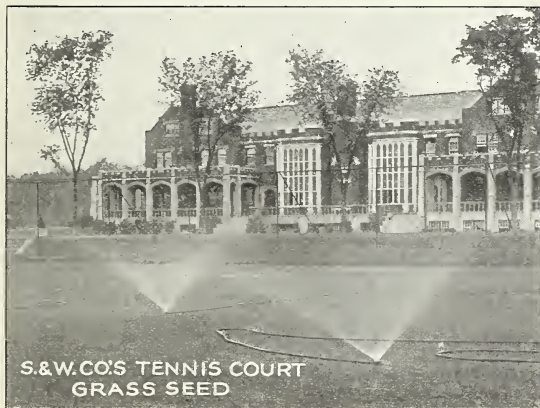
S. & W. Co.'s Shady Place Lawn Seed

Shady Place Lawn Seed

There is nothing more annoying in caring for a lawn than the bare, unsightly spots under the trees, shrubs, etc., and invariably all efforts have failed to get the grass to grow in such places; but, by sowing this mixture, the difficulties will be overcome. It is a combination of dwarf-growing varieties which do well in all shaded places, being found in their natural state in woods and other sheltered spots. **Qt. 50 cts., 4 qts. \$1.75, 8 qts. \$3.25, bus. (20 lbs.) \$12, 10 bus. \$115.** Charges prepaid when cash accompanies order.

Tennis-Court Grass Seed

Our Tennis-Court Grass Seed is composed of grasses best suited for making grass tennis-courts, croquet-grounds or bowling-greens. The turf required for these must be firm and yet elastic, and composed of grasses which can be mowed close and kept exceedingly dwarf. This mixture is composed of the best-known, fine-leaved, deep-rooting grasses, properly proportioned so as to give an even playing surface throughout the year. It is advisable to sow at least twice the quantity as for ordinary lawn purposes, of these fine-leaved grasses in order to obtain proper playing turf. One quart to two square feet is advisable on new seedling, and where bowling greens are desired, or several courts are to be made, it is advisable to consult us, and we will be glad to suggest special formulas to suit soil and locations. **Qt. 50 cts., 4 qts. \$1.75, 8 qts. \$3.25, bus. (25 lbs.) \$12, 10 bus. \$115.** Charges prepaid when cash accompanies order.



S. & W. Co.'s Tennis-Court Grass Seed

S. & W. Co.'s Novelties and Specialties in Flower Seeds

The descriptions given of the following Novelties are those of the introducers. In this connection we desire to say that all are from the best possible sources of supply, and have been selected by us with every regard for the reliability of the introducers.

THE SIX KING ASTERS

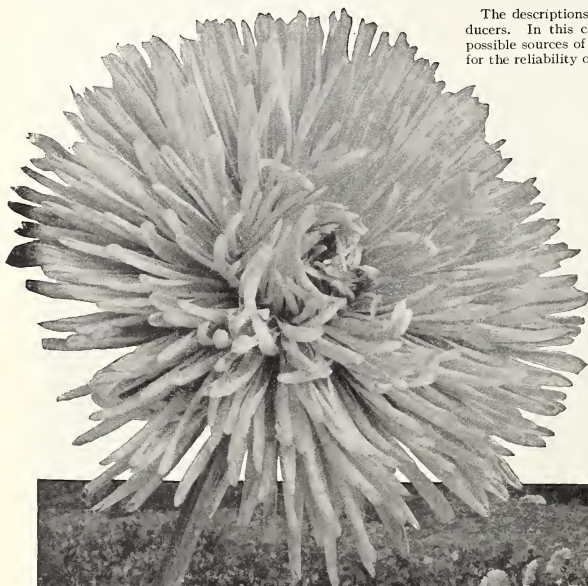
	Pkt.	1/2oz.
LAVENDER KING.....	\$0 15	\$1 25
PINK KING.....	15	1 25
VIOLET KING.....	15	1 25
WHITE KING.....	15	1 25
ROSE KING.....	15	1 25
CRIMSON KING.....	15	1 25

Collection: 1 pkt. each, 6 King Asters..... \$0 75
 1/2oz. each, 6 King Asters..... 5 00

This magnificent class of Asters is distinct from all others in the character of the flowers. The long, narrow petals are folded lengthwise, appearing almost as though quilled. The flowers are of great size and substance, and last longer when cut than any other class.

The plants are large, and the stems exceptionally long and strong. Our customers who have grown this famous group of Asters will be pleased to learn of another color being added to this splendid type of Aster.

White King and Pink King are of more upright habit, while Lavender King, Violet King, and Rose King are of branching habit; blooming, as they do, with our Late Branching, they make a very desirable addition and should be grown in every garden.



BED OF KING ASTERS

TEN CHOICE AMERICAN ASTERS

The following ten Asters, many of which were introduced by James Vick's Sons, Aster Specialists, deserve a place in every garden, as they are among the best of recent introductions.

Autumn Glory. New Very Late Branching Aster. Pure sea-shell pink. While similar in color to Semple's Pink, with which most persons are familiar, it has a better and more substantial flower, a deeper and longer-keeping color, larger and stronger type of plant. Its most distinctive characteristic and chief claim for recognition, however, is the fact that it is later in season than any of the other varieties. While it cannot take the place of Semple's Pink, Peerless Pink, Shell-Pink, Rochester, and others of similar color, all of which are earlier, it supplements them by blooming after the other Late Asters are past their prime, and before the early Chrysanthemums are ready, thus prolonging the Aster season two weeks, and coming at a time when good flowers are extremely scarce. Autumn Glory will be a money-maker for the commercial grower, and a delight to the amateur. It comes uniformly true to color and type. The flowers are splendid in size and form, very double, and are borne on stems of unusual length. **Pkt. 15 cts., 1/4oz. \$1.25.**

Pink Enchantress. Upright in habit, as distinguished from the Branching form. The plant is very vigorous and produces long, strong stems for the support of numerous large exhibition blooms. The flower is always full-double; petals are of medium length and very broad; those toward the center fold in very regularly, while gradually, toward the outer edge, the petals stand out more and more until those on the outside recede from the center, thus increasing the diameter of the flower, which compares very favorably in size with the largest-flowering kinds on our farm. Color similar to that of the Enchantress carnation; flowers late. **Pkt. 15 cts., 1/4oz. \$1.25.**

Peach Blossom. A decided and pleasing shade of deep lavender-pink. The flowers are of the largest Branching size and very deep, having an unusual number of rather narrow petals. The size and thickness of the flower give it a massive effect. The plants are of the non-lateral type, with very strong stems that hold the flowers up at all times; flowers late. **Pkt. 15 cts., 1/4oz. \$1.25.**

White Perfection. Finest midseason white Aster in cultivation. The flowers are 4 inches in diameter and exquisite in form, and the plants are taller than those of the late upright Asters. When first open the entire flower is whorled, producing a charming effect; the broad petals are slightly folded lengthwise, making them appear rather narrow. The plants are extremely vigorous; they carry about twelve large flowers on strong stems free from side branches. **Pkt. 15 cts., 1/4oz. \$1.25.**

Early Upright White. This is one of the best selling novelties of the last two seasons. Plants grow compactly with long, erect flower-stems, which are quite free from side shoots. Plants yield eight to twelve flowers. The flowers are unusually large and solid, compact and ball-shaped. The crown is completely covered. **Pkt. 15 cts., 1/4oz. \$1.25.**

Royal Pink. Possessing all the characteristics of our famous Late Branching, and identical in habit with Royal Purple, except in color, which is a beautiful shell-pink. Blooms several weeks earlier than the Late Branching. **Pkt. 15 cts., 1/4oz. \$1.25.**

Royal Purple. Considered by most people who have grown this as the best medium-early Branching Aster of its color. It has all the advantages of vigor and productiveness; color striking. **Pkt. 15 cts., 1/4oz. \$1.25.**

Purple American Beauty. Similar in character of flower and growth to the well-known Late Branching Asters. They differ, however, in that the flowers are borne on much longer and heavier stems. One of the latest flowering Asters. **Pkt. 15 cts., 1/4oz. \$1.25.**

Lavender Gem. Truly a gem and easily the finest early lavender. Full-double flower, the feathery effect of the ostrich-feathered type is enhanced by the fact that it bears long, partly tubular florets that are irregularly cut and slashed, resembling ragged chrysanthemums. **Pkt. 15 cts., 1/4oz. \$1.25.**

Improved Crego Pink. The plants are vigorous and productive of from ten to fifteen strong flower-stems frequently 2 feet or more in length. Pure shell-pink flowers, 4 to 5 inches; in bloom from mid-August on through September. **Pkt. 15 cts., 1/4oz. \$1.25.**

COLLECTION. One packet each of 10 varieties, \$1

PINK ENCHANTRESS ASTER



ASTER, AMERICAN BEAUTY

Similar in type and growth to our well-known late branching Asters, but differs in that all the large blossoms are produced on longer and heavier stems. Some of the individual stems measure more than 2 feet in length. It makes an unusually heavy growth and is one of the latest flowering Asters we know of. We can supply in the following four colors:

Peach Blossom
Light Blue

Rose
Purple

Pkt. 25 cts., 5 pkts. \$1, any of the above colors

ANTIRRHINUM

Giant-Flowering Tall Varieties

The following two varieties of Snapdragons have been selected from our trials as being worthy of listing. Both belong to the tall-growing type which is so useful as a cut-flower.

Feltham Beauty. Quite the largest-flowering variety introduced to date. The color is a deep rose-pink, with white centers. The spikes are very long, and the plant is a strong-growing and very free-flowering one. **Pkt. 25 cts., 5 pkts. \$1.**

Orange Beauty. A lovely orange-scarlet, with gold lip and a very large flower. **Pkt. 25 cts., 5 pkts. \$1.**

CALENDULA ORANGE KING

The flowers of this improved strain of Calendula are of a deep, glistening orange throughout. This old-fashioned, annual is now universally grown and can be frequently seen during the winter in the florists' shops. In cool locations the plants bloom from early summer until frost. Excellent for mixed borders. **Pkt. 25c., 1/4oz. 75c., oz. \$2.**

CARDINAL CLIMBER

(*Ipomoea Quamoclit hybrida*)

This hybrid *Ipomoea* is considered one of the most brilliant and distinct annual climbers introduced. A rapid grower, often attaining the height of 30 feet or more. The deeply lacinated, fern-like foliage and fiery cardinal-red flowers are borne in profusion from July to frost. The flowers are about 1 1/2 inches in diameter and are borne in clusters of five to seven blooms. Seed may be sown indoors during April, but it is best to wait for warm weather and sow outdoors in a sunny position. Soaking seeds in warm water before planting hastens germination. **Pkt. 15 cts., 2 pkts. 25 cts.**

CENTAUREA AMERICANA

While this variety of the Giant Cornflower is not a novelty, it is only this past year that it has been more generally seen in the American garden. The stems, foliage and flowers are gigantic in size compared with the regular sorts. The flowers which appear thistle-like and gradually open, and attain the size of 4 inches, are of a splendid, deep lavender-color, making an excellent subject for garden decoration or cuttings. Like the *Cyanus*, it is easily flowered from seed sown outdoors; plants should be placed at least 1 foot apart. Height 3 ft. **Pkt. 15c., 5 pkts. 50c.**

NEW DOUBLE CLARKIAS

This is a distinct advance in the Clarkias, which has resulted from careful selection of the tall-growing varieties. The varieties we offer are quite fixed in character. Plants grow about 2 feet high, which makes them good subjects for pots or open-ground culture. A grand acquisition to the hardy annual selection.

Purple King. Rich purple.
Scarlet King. Orange-scarlet.

Brilliant King. Rich crimson-scarlet.
White King. Pure white.

Pkt., each, 15 cts., 4 pkts., one of each, 50 cts.

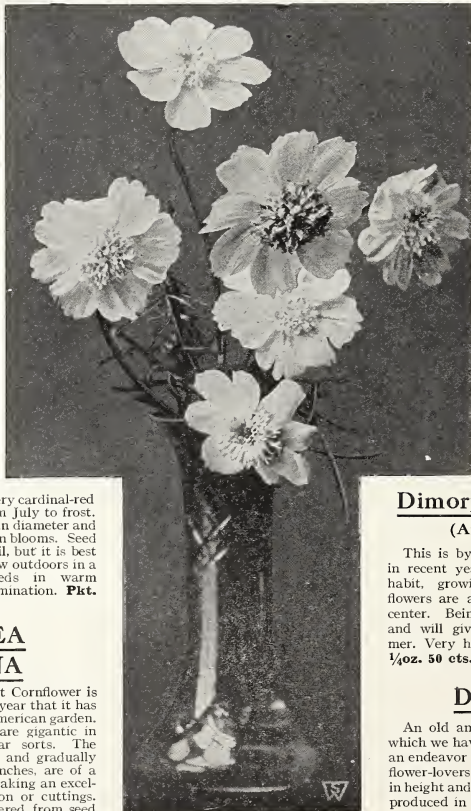
S. & W. Co.'s Double-Crowned and Crested Cosmos

We consider this one of the best Flower Novelties of the 'year—an entirely new race of Cosmos. The plants are similar in habit to our famous strain of late-flowering Cosmos, and a fair percentage have double crowns, which give the flower a very dainty and exquisite appearance. The colors are pure white and a delightful shade of shell-pink. Seed sown in our trials in early August bloomed the middle of October, giving a percentage of delightfully double-crowned blooms. We are very glad to be able to offer, for the first time this year, both the white and pink color separately. Sown outdoors during May, excellent plants are obtained for fall blooming.

Pink. Shell-pink. **Pkt. 20 cts., 6 pkts. \$1.**

White. Pure white. **Pkt. 20 cts., 6 pkts. \$1.**

Crimson. Deep crimson. **Pkt. 20 cts., 6 pkts. \$1.**



Dimorphotheca aurantiaca

(African Golden Daisy)

This is by far one of the best introductions in recent years. The plants are of branching habit, growing about 15 inches high; the flowers are a rich golden orange with a dark center. Being an annual, it is easily cultivated and will give a magnificent display all summer. Very highly recommended. **Pkt. 10 cts., 1/4oz. 50 cts.**

Diascia Barberæ

An old and not so frequently grown annual which we have inserted here in the Specialties in an endeavor to give it a wider acquaintance with flower-lovers. The plants average 9 to 12 inches in height and the dainty spurred flowers are freely produced in sprays on wiry stems. The flowers are 3/4 inch in diameter and of a soft salmon-rose. **Pkt. 10 cts., 3 pkts. 25 cts.**

S. & W. CO.'S DOUBLE-CROWNED AND CRESTED COSMOS

NEW HYBRID DELPHINIUMS

Hardy Larkspurs

The magnificent Hybrid Hardy Larkspurs offered below represent the finest varieties of a famous English collection, many of which, up to the present time, have reached the gardener only in plant form. Through special efforts we have induced England's best specialists to carefully save seed for us, and we offer a fair quantity of seed of each variety. It is a well-known fact that seed saved from these varieties can never be relied upon to come strictly true to name. We have no hesitation in saying, however, that due to care taken in gathering seed the plants produced will give flowers equal in merit as regards size and color to those from which seeds were saved.

Amos Perry. Rosy mauve; semi-double.

Andrew Carnegie. Enormous, double flowers; soft lilac, with blue center.

Beauty of Langport. Creamy white, with pale buff eye.

Chamud. Very dark violet; double-flowering.

Corry. Sky-blue, with rosy tinge; double-flowering.

King of Delphiniums. A magnificent variety, with massive spikes well set with semi-double flowers, 2 inches or more across. In color a rich gentian-blue, with a very conspicuous white center. A very showy variety for the border.

Lady Ravensworth. Lovely bright blue.

Prince Henry. Semi-double; rich, dark purple, with white center. A very fine sort.

Rosenlust. Light blue, shaded rose.

Zuster Lugten. Rich, dark blue; double.

Any of the above, pkt. 25 cts., 5 pkts. \$1

COLLECTION, 1 pkt. each, 10 varieties \$2 00



DIANTHUS, SNOWBALL

DIANTHUS, SNOWBALL

This splendid variety of the Dianthus or Pink family is one of the finest of all this genus for cutting. It is classed as a biennial but may be treated as an annual and sown outdoors when all danger of frost is past. It requires a rich soil and an abundance of sunshine. The plants grow about a foot high and are excellent for beds or border. Large, double, white flowers. **Pkt. 15 cts., 1/4oz. 50 cts.**

HUNNEMANNIA FUMARIAEFOLIA

Giant Yellow Tulip Poppy, or Bush Eschscholtzia

This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup-yellow, Poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful, feathery, glaucous foliage. **Pkt. 10 cts., 1/2oz. 60 cts., oz. \$1.**

GAILLARDIA LORENZIANA, THE BRIDE

The annual Gaillardias have always been very popular, more especially the double Lorenziana, and we feel that the variety that we now offer as "The Bride" will be much sought after. The flower is white, very double, and borne on very long stalks, making it an ideal plant either for bedding or cut-blossoms. **Pkt. 15 cts., 2 pkts. 25 cts.**

CHINESE WOOLFLOWER (Celosia Childsii)

This is a unique form of the feathered Coxcomb, growing two to three feet high and about the same size in diameter. Each branch is terminated with a large head of rich crimson flowers that look as if made out of some silky wool material. A very effective annual for beds and borders. May be used to excellent advantage as a cut flower as well. **Pkt. 15 cts., 2 pkts. 25 cts.**



HUNNEMANNIA FUMARIAEFOLIA



GIANT AFRICAN MARIGOLD

GIANT AFRICAN MARIGOLD

Few plants have to their credit the mass of glorious color such as is furnished by Marigolds and zinnias in the garden. Their season of bloom during the summer until fall strongly suggests their use. Seed of this type should be sown outdoors in May and transplanted, leaving at least 18 inches each way between the plants, as they are robust growers and can attain their maximum development only if given plenty of growing space.

Giant Show Lemon. This highly meritorious strain of the African Marigold is grown specially for us by a specialist in Europe who selects only the finest blooms and plants of unusually good constitution for seeding purposes. Height 2½ feet. Pkt. 25 cts., 5 pkts. \$1.

Giant Show Orange. The darker form of the preceding variety. Height 2½ feet. Pkt. 25 cts., 5 pkts. \$1.

NASTURTIUM, NEW GIANT- FLOWERING

The plants are strong and vigorous, with very large, bright green leaves, measuring from 5 to 8 inches across. The flowers, which are very numerous, measure 3 inches in diameter, and are borne on long stems well above the foliage. They are exquisitely formed, with overlapping, crinkled petals. They are produced in great numbers and have a most striking effect. Their fine color, long stems, great size and esthetic form make them valuable for cutting.

Giant-flowered, Dwarf, Mixed. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.

Giant-flowered, Tall, Mixed. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.

PETUNIA, S. & W. CO.'S PINK BEAUTY

This is a grand acquisition to the single bedding Petunias. Brilliant rose-pink, throat lightly suffused yellow. The flowers are very large and of handsome form. Of very rapid growth and continuously in bloom. Many who have grown this Petunia in beds, borders or rockeries proclaim it the best they have ever seen. Pkt. 15 cts., ¼oz. \$1.

POPPY, Double Queen

This beautiful new strain of Poppies is of the Shirley type, but the flowers are double and semi-double, of the most delicate and brilliant colors, including salmon, pink, crimson, orange-salmon shaded white, brilliant scarlet with white center. For graceful beauty these Poppies are unexcelled and will be highly prized for the flower-garden and cutting. Like all of the annual Poppies this variety should be sown early in the spring, barely covering the seed, in a sunny situation, and for best results thin out to 4 inches between the plants. It is well to make several sowings where a succession of bloom is desired. Pkt. 15 cts., ¼oz. \$2.50.

Poppy, Double Carnation-flowered

Resembles the annual Poppy, but larger and more double in form. The colors are similar to those described above but the flowers are more double. They are very showy during their flowering period. Excellent for borders or beds. Pkt. 10 cts., ¼oz. \$1.

PYRETHRUM, S. & W. CO.'S NEW DOUBLE HYBRIDS

This beautiful perennial, when grown from a selected strain, is one of the finest for cutting. The seed we are offering is grown by a specialist who, after painstaking effort, has produced a wonderful strain. The flowers are large, very double, and the colors are distinct shades of pink, salmon, scarlet and pure white. Pkt. 25 cts., 5 pkts. \$1.



DOUBLE CARNATION-FLOWERED POPPIES

STUMPP & WALTER CO.'S SELECTED SEEDS

NEW AND RARE CALIFORNIA POPPIES (*Eschscholtzia*)

The varieties enumerated below represent a distinct advance in this, the most gorgeous of California's beautiful annuals. While several of the varieties are listed on page 77 of our catalogue, we also offer several that we have not offered heretofore.

CARMINE KING. Beautiful shade of carmine-rose.

CHROME QUEEN. An entirely new and distinct tone of rich chrome-yellow.

FRINGED YELLOW. A deep pure yellow, the petals deeply cut and fringed.

GEISHA. Very exquisitely fluted and fringed petals which are of a bright glistening scarlet on the outside, while the inside is a rich golden orange—a most striking color combination.

VESUVIUS. In this variety the color is similar on both sides of the petals—a rich wallflower or coppery red which glistens in the sunlight.

Any of the above varieties, **pkt. 10 cts., 1/4oz. 50 cts.**

NEW SALVIAS

We have several varieties of New and Rare Salvias to offer below, and would ask our patrons to give them a trial.

America, or Globe of Fire. A new variety of this popular flower. Of dwarf, bushy, compact growth and very uniform in height and shape. A free and continuous bloomer, producing large spikes of brilliant scarlet flowers. We consider this variety an improvement over any other dwarf Salvia. **Pkt. 25 cts., 1/2oz. \$1, 1/4oz. \$1.75.**

Farinacea. A perennial variety, but best grown as an annual. Seed sown in the open ground in May blooms from July to frost. The light blue flowers are borne on long spikes, held above the foliage; makes a good blue line. Grows about 2 feet high. **Pkt. 15 cts., 4 pkts. 50 cts.**

Farinacea alba. The white variety. **Pkt. 25 cts., 5 pkts. \$1.**

Ostrich-Plume. The Ostrich-Plume Salvia is the most beautiful of all Salvias of recent introduction. The habit of the bush resembles the Splendens type but, unlike Splendens, produces a plume. The bush is well covered with these plumes of the most intense, dazzling scarlet. As a cut-flower for vases one plume alone makes a delightful decoration. Comes 75 per cent true from seed, and stands the weather as well as all the other Salvias. **Pkt. 25c., 5 pkts. \$1.**

SWEET WILLIAM, SCARLET BEAUTY

An intensely rich, deep scarlet selection out of Pink Beauty, almost identical in color with the Poinsettia. A really grand advance. **Pkt. 15 cts., 2 pkts. 25 cts.**

VERBENA, S. & W. CO.'S NEW GIANT-FLOWERING

We are pleased to offer to our patrons, in mixture only, a new strain of Verbenas. The flowers are larger than any we have heretofore seen. The trusses and individual flowers are of unusual size and the colors range in distinct tones of bright blue, pink, salmon, scarlet, and white. **Pkt. 25 cts., 5 pkts. \$1.**

ZINNIA (Giant Double-Flowering)

This Zinnia is a wonderful improvement over the dwarf double-flowering for size of flower and general vigor of the plant. Trials of this Zinnia sown in the open ground in April produced flowers 6 inches in diameter on plants 2 to 2½ feet high. A splendid companion to our Giant Double African Marigold, listed on the preceding page. If sown in the open ground in April, thin out as soon as the plants are well up, leaving at least 18 inches each way, as they are robust growers and require a large amount of space to attain maximum size.

	Pkt.	Oz.
Tall Giant Double White	\$0 25	\$2 00
Tall Giant Double Rose	25	2 00
Tall Giant Double Crimson	25	2 00
Tall Giant Double Scarlet	25	2 00
Tall Giant Double Yellow	25	2 00
Tall Giant Double Mixed	25	2 00

Zinnia, Haageana Perfection.

This variety has been one of the most satisfactory border plants we have ever had the pleasure of seeing. Seed sown in the open, May 1, came into flower June 30, and continued blooming until frost. The plants are of dwarf, compact growth, 9 to 10 inches high and of the same width through, with fine foliage, and bear a mass of very double flowers about 1½ inches across and of a most unusual range of colors—rose-tipped canary-yellow, maroon-tipped cream, yellow, wallflower-red and garnet. We recommend this as an excellent border annual for display as well as cutting. **Pkt. 15 cts., 2 pkts. 25 cts.**



GIANT DOUBLE-FLOWERING ZINNIAS

Twelve Fine Spencer Sweet Peas

Each year the Sweet Pea enthusiasts of Europe and America offer a list of Novelty Sweet Peas. There are now several hundred good varieties in commerce, many of them of splendid merit, but in many cases the varieties are much alike. We have listed on page 92 of our catalogue 46 of the most distinct varieties which we respectfully recommend. Many of our customers, however, are desirous of growing a limited number of varieties but want these to be the very best. It is with this in mind that we offer the following:

Dobbies' Cream

This variety is considered by the best exhibition growers to be the finest primrose-yellow Spencer Sweet Pea as yet introduced. Of good size and freely produced.

Elfrida Pearson

This has proved to be by far the finest and largest light pink variety, scoring well in all Sweet Pea exhibitions. The flowers are of enormous size and very wavy. It is a very strong, vigorous grower, bearing its giant flowers on long, stiff stems. A very profuse bloomer.



ROYAL PURPLE SWEET PEAS

Fiery Cross

This variety has all the appearance of live fire, the color being a scorching fire-red or scarlet—very dazzling color in the sunlight. The flowers are well waved and fluted and are borne freely in threes and fours, well placed on long, stout stems.

Hercules

To this variety belongs the distinction of being one of the finest rose-pink selfs. Quite identical in color to the variety Countess Spencer, but the flowers are larger and are borne more freely on longer stems.

King White

Considered the finest glistening pure white variety. The flowers are very large and well placed on long, strong stems.

Margaret Atlee

Considered by all experts to be the finest cream-pink Sweet Pea as yet introduced. A rich glowing pink on a cream ground. A very strong grower and free bloomer.

Mrs. Cuthbertson

Few collections of Sweet Peas would be complete without a Bi-color variety. Few varieties are more decorative. Mrs. Cuthbertson is the best Bi-color introduced to date, much superior to the once popular Blanche Ferry Spencer. The standard is a clear rose pink, with the white wings forming pleasing color contrast.

Nubian

Considered by leading experts to be the finest deep chocolate-colored or maroon variety. The flowers are of gigantic size and well waved.

R. F. Felton

One of the finest as well as the largest-flowering lavender varieties. The color is a soft, pleasing shade of lavender suffused rose.

Royal Purple

A very attractive variety on account of its depth of color. A rich royal purple. The flowers are large in size, well waved, and are borne on long, stiff stems.

Thomas Stevenson

When well grown few varieties appear more attractive on the exhibition table. A very brilliant orange-scarlet, much admired for its striking color. The flowers are gigantic in size, exquisitely waved, and are borne on strong stems.

Wedgwood

A clear, bright, silvery blue—a very lovely color and when well grown a splendid exhibition variety. The flowers are large, and are well placed on strong stems.

Price, any of the above 12 fine Spencer Sweet Peas, pkt. 15 cts., oz. 60 cts., 1/4 lb. \$2.

SPECIAL COLLECTION OFFER

1 pkt. each 12 varieties \$1 50
1 oz. each 12 varieties 6 00

GENERAL LIST OF FLOWER SEEDS

In presenting this list of **Flower Seeds** for your attention, every care has been taken to secure seeds from sources of supply known to us, and from our experiences and from our tests at our **trial grounds**, to be of the highest possible merit. Our Flower Seeds are selected with an idea of superiority of strain and we handle only the highest possible types in each respective class.

We mail all **Flower Seeds FREE OF COST** to any **Post Office** in the **United States**.

ANNUALS grow from seed, flower and mature their seed the same season.

HARDY ANNUALS can be grown outdoors in open ground.

HALF-HARDY ANNUALS should be started early in house or hot-bed and transplanted to the open ground as soon as danger of frost is past.

BIENNIALS are sown usually from early July to late August, and come to next season.

HARDY BIENNIALS may be left in the ground over winter.

The following abbreviations will be used to designate the classes under which various Flower Seeds offered come.

H.C. Hardy Climbers.

G.C. Greenhouse Climbing Plants.

G.S. Greenhouse Shrubs.

G.B. Greenhouse Bulbous Plants.

G.P. Greenhouse Plants.

HALF-HARDY BIENNIALS. Protection of coldframe is necessary over winter.

PERENNIALS grow from seed, and flower annually for a number of years. They bloom the season after sowing, but can be had in flower the first season if planted early in a moderate heat.

HARDY PERENNIALS can be left in the open ground without any protection, but this is not recommended. Protection is beneficial.

HALF-HARDY PERENNIALS require protection of a coldframe or greenhouse during winter.

AGERATUM (Floss Flower)

One of the very best bedding plants, being literally a sheet of bloom from early summer till frost. Unlike many bedding plants, their flowers are not liable to be spoiled by rain, nor do the colors fade out. The various blue varieties are, without doubt, the most satisfactory bedding plants of this color for our trying climate. Easily raised from seed, which is usually started in a hotbed or window and transferred to the open ground in May. Can also be sown outdoors in May. A sowing in September will give plants to bloom all winter. Half-hardy annual.

Blue Perfection. Large heads of deep blue flowers produced in abundance. Pkt. 10 cts., oz. \$1.

Little Blue Star. A very dwarf variety used largely for edging, growing about 4 to 5 inches high; bright blue flowers. Pkt. 25 cts., 5 pkts. \$1.

Little Dorrit, Blue. This variety grows about 6 inches high; flowers bright blue. Pkt. 10 cts., oz. \$1.

Little Dorrit, White. Same in habit as preceding, only white. Pkt. 10 cts., oz. \$1.

Mexicanum Capella. Distinct variety growing about 9 inches high; flowers rose chamois. Pkt. 15 cts., 2 pkts. 25 cts.

Princess Pauline. A very beautiful variety of compact, stem growth, rarely exceeding 8 inches in height; the flowers are sky-blue with a white center. Pkt. 10 cts., oz. \$1.

Swanley Blue. Bright blue; height 12 inches. Pkt. 10 cts., oz. \$1.

ACHILLEA

Ptarmica, The Pearl (Sneezewort). Hardy perennial. One of the best, bears a profusion of small, double, white flowers during the entire season. Fine for cutting. Height 2 1/2 feet. Pkt. 25 cts., 1/2 oz. \$2.

ACONITUM

(Monkshood, or Wolfsbane)

Napellus. A hardy perennial, growing in any good garden soil, producing long spikes of curiously shaped blue flowers. Well adapted for planting among shrubbery. 3 to 5 feet. Pkt. 10 cts., 1/2 oz. 35 cts.

Napellus albus. White. Pkt. 10 cts., 1/2 oz. 35 cts.

Finest Mixed. All colors. Pkt. 10 cts., 1/2 oz. 25 cts.

ACROCLINUM. See page 98.

ADONIS

Æstivalis (Pheasant's Eye).

Hardy annual. Dark green foliage; scarlet flowers. 1 foot. June to August. Pkt. 10 cts., oz. 50 cts.

Autumnalis. (Flos Adonis). Small, crimson flowers, with dark center; globose, 1 foot. May to July. Pkt. 10 cts., oz. 50 cts.

Vernalis (Spring Adonis). Hardy perennial, with large yellow flowers in the early spring. 1 foot. May. Pkt. 10 cts., oz. \$1.



AGERATUM, SWANLEY BLUE

AGROSTEMMA

Cæli-roba (Rose of Heaven). Superb free-flowering hardy annual; rose-colored flowers; fine for cutting. Height 1 1/2 ft. July to Sept. Pkt. 10 cts., oz. 75 cts.

Coronaria (Rose Campion; Mullein Pink). Hardy perennial; flowers dark blood-red and very large; foliage silvery. Height 12 feet. June to September. Pkt. 10 cts., oz. 75 cts.

Coronaria alba. White. Pkt. 10 cts., oz. 75 cts.

Coronaria, Mixed. Pkt. 10 cts., oz. 75 cts.

ALOYSIA citriodora (Lemon Verbena). Greenhouse evergreen; valuable for the fragrance of its foliage, excellent for planting outdoors. 2 feet. Pkt. 15 cts., 1/2 oz. \$1.

ALSTREMERIA Finest Mixed. Hardy perennial. Beautiful lily-like flowers, borne in clusters ranging from light yellow to orange. Must be grown in moist, shady spots. Height 3 feet. June to August. Pkt. 25 cts., 1/2 oz. 75 cts.

ALYSSUM

This most popular hardy annual needs little introduction. Used extensively as a border for the flower-garden, but equally valuable as a cut-flower, owing to its delightful fragrance.

Little Gem (*A. maritimum*). Plants grow very dwarf and spreading; they grow only 3 to 4 inches high, and each plant completely covers a circular space of 12 to 20 inches. Pkt. 10 cts., oz. 75 cts.

Sweet Alyssum (*A. Benthani*). Well-known fragrant white. Pkt. 5 cts., oz. 50 cts.

White Carpet (*A. compactum procumbens*). Pure white; grows only 2 to 3 inches high and flowers profusely. Pkt. 10 cts., oz. \$1.

Saxatile compactum. Hardy Perennial. Excellent rock or border plant, bearing bright yellow flowers from April to June. Height 9 inches. Pkt. 15 cts., oz. \$1.50.

AMARANTUS

Brilliant-foliaged annuals, growing from 3 to 5 feet high, some of the varieties bearing curious racemes of flowers. All are useful in borders of tall plants, or for the centers of large beds. They thrive best in a hot, sunny location and not too rich soil; must be given sufficient room to develop their full beauty.

Caudatus (Love-Lies-Bleeding). Blood-red; drooping. Pkt. 10 cts.

Cruentus (Prince's Feather). Dark red, feathery flowers. Pkt. 10 cts.

Tricolor (Joseph's Coat). The leaves are red, yellow and green. Pkt. 10 cts.

AMPELOPSIS Veitchii (Boston or Japan Ivy). Valuable hardy and perennial climber, clinging to walls of wood, brick or stone; foliage dense, of glossy green, changing to red and yellow in the autumn. Pkt. 10 cts., oz. 50 cts.

ANCHUSA

Barrelieri (Alkanet). Hardy perennial. Flowers deep blue, with a white tube and pink throat, borne on spikes 2 feet high; good for cutting. June to September. Pkt. 10 cts., 1/4 oz. 60 cts.

Capensis. Biennial. Flowers azure-blue. 1 1/2 feet. July and August. Pkt. 5 cts., 1/4 oz. 50 cts.

Italica. Hardy perennial. Deep blue. 3 feet. June to September. Pkt. 10 cts., 1/4 oz. 60 cts.

Sempervirens. Hardy perennial. Blue. 1 1/2 feet. Pkt. 10c., 1/4 oz. 50 cts.



BORDER OF ALYSSUM, LITTLE GEM

Anchora Italica, Dropmore Variety NEW

The bright blue forget-me-not-like flowers are borne on graceful stems during the entire season and way late into the fall. It is a great improvement over the existing varieties. Hardy perennial. 4 to 5 feet. Pkt. 15 cts., 1/4 oz. \$1.

ANEMONE, Single Giant de Caen (Windflower). The giant French Anemone. Half-hardy perennial. Excellent for cutting. 6 inches. Pkt. 5 cts., 1/4 oz. 50 cts.

St. Brigid (Irish Anemone). A great variety of colors. Pkt. 15 cts., 1/4 oz. \$2.

ANTHEMIS Kelwayi (Marguerite). Hardy perennial. Large, daisy-like yellow flowers; good for cutting. Height 2 feet. July to September. Pkt. 10 cts., 1/4 oz. 60 cts. **Nobilis**. White. 2 feet. Pkt. 10 cts., 1/4 oz. 75 cts.

AQUILEGIA (Columbine)

The Aquilegias are fine, free-flowering, hardy border plants. Seed may be planted in the open ground early in the spring, and will, in the case of single varieties, bloom the same season. Best results are obtained by planting in August, when they will come up early in the spring, making vigorous plants, and will bloom during late spring and early summer.

Giant Long-spurred, Mixed. A very excellent mixture of Columbines, combining new and pleasing shades of colors, in many shades of lavender, blue, mauve, white, yellow, orange, scarlet, and bright rose-pink. Pkt. 25c., 5 pkts. \$1.

Californica hybrida. Beautiful flowers, principally yellow and orange shades. Pkt. 15 cts., 1/4 oz. \$1.25.

Chrysanthia. Canary-yellow. About 3 feet. Pkt. 10 cts., 1/4 oz. \$1.25.

Cerulea. Violet-blue and white. About 2 feet. Pkt. 15 cts., 1/4 oz. \$2.

Skinneri. True scarlet tipped with green. 3 feet. Pkt. 15 cts., 1/4 oz. \$2.

Rose Queen. Rose shades with white centers and yellow anther; beautiful. 3 feet. Pkt. 15 cts., 1/4 oz. \$2.

Stewartii. Beautiful, large; pale blue. 2 feet. Pkt. 50 cts.

Double Mixed. Very fine. 3 feet. Pkt. 10 cts., 1/4 oz. \$1.

Single Mixed. Fine varieties. 3 feet. Pkt. 10 cts., 1/4 oz. \$1.



LONG-SPURRED AQUILEGIAS

ANTIRRHINUM (Snapdragon)

Antirrhinums, or Snapdragons, are among the most showy of our half-hardy perennials. When sown under glass in February, they can be brought to bloom during July. As a cut-flower, the tall varieties are exceedingly attractive, while the dwarf varieties look very pleasing when used for borders or edging of beds. Grown under glass, also for winter flowering.

New Antirrhinum, Silver Pink

This delightful Snapdragon has been largely grown in greenhouses during the winter months by florists and gardeners throughout the United States. A splendid half-high sort with flowers of delicate silver-pink. **Pkt. \$1.**

Giant-Flowered Tall Snapdragons

Height about 3 feet

Coral-Red. A pretty and attractive shade. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Blood-Red. Striking in color. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Carmine-Rose. Carmine; yellow blotch on lower lip. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

Chamois. Very handsome new color. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.
Album. Very large, white. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Luteum. Pure yellow. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Rose Dore. A pretty shade of self salmon-rose. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.
Fairy Queen. Rich salmon, white throat. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Queen Victoria. A very large white. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Scarlet. Very attractive. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Special Mixture, Named Sorts. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Collection: 10 named varieties.....\$1 00
 5 named varieties.....50

Giant-Flowered Semi-Dwarf Snapdragons

Height about 18 inches

Black Prince. Dark crimson; foliage dark. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Crimson King. Bright crimson. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Golden Queen. Rich yellow. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Pink Empress. Deep rosy pink. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Queen of the North. White; excellent bedding variety. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Stratum. Very fine striped. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts.
Special Mixture, Named Sorts. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.
COLLECTION: Six named varieties.....\$0 50



ANTIRRHINUM (Snapdragon)

Giant-Flowered Dwarf Snapdragon

Height about 12 inches

These varieties make very fine pot-plants.			
	Pkt.	$\frac{1}{4}$ oz.	
Dwarf White	\$0 15	\$0 75	Dwarf Orange\$0 15 \$0 75
" Scarlet	15	75	" Rose15 75
" Yellow	15	75	" Striped15 75
			Mixture, Named Sorts 10 50

COLLECTION: Six named varieties.....\$0 50

ARCTOTIS GRANDIS (African Daisy)

A remarkably handsome annual from southwest Africa. It forms much-branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals pale lilac-blue. There are few annual flowers grown in the garden more valuable for cut-flower work than the Arctotis. It is easily grown from seed, and may be started in hot bed, in the house or in the open ground, the seed germinating in about five days, and the plants may be expected to come into bloom early in July and continue until quite hard frost. It delights in a sunny situation. As a cut-flower it is especially valuable, the blooms lasting a week or ten days in water, and if undeveloped buds are cut and placed in a sunny window, every one will open and produce as fine flowers as though left on the plant. **Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.**

ARISTOLOCHIA Siphon (Dutchman's Pipe Vine). A very attractive and highly ornamental climber, with flowers resembling the pitcher plant. Pkt. 10 cts.

Asparagus

Plumosus nanus. A graceful pot-plant for either house or conservatory. Finely cut foliage. Pkt. 25 cts., 100 seeds \$1.

Spengeri. Drooping foliage, adapted for hanging-baskets or cutting. Pkt. 25 cts., oz. 75 cts.



ARCTOTIS GRANDIS

S. & W. CO.'S SUPERB ASTERS

Asters will thrive in any good soil, prepared in the same way as you would for a crop of vegetables, but it is well to remember that any extra care taken in the preparation of the soil is repaid by finer plants, larger blooms, with longer stems and more profuse flowering. They should have an open, sunny position, and prefer a good, heavy, loamy soil enriched with a liberal quantity of Bone Dust No. 2, and an addition of air-slaked lime, and we do not advise growing them on the same ground two years in succession; it is better to change each season. For early flowering, seeds should be started in a sunny window, hotbed or coldframe in April and transferred to their place in the garden as soon as danger of frost has gone by. For August (midseason) and September (late) sow seeds outside in finely prepared ground in May, thinning out to 1 foot in the rows and 2 feet between. With the above prescribed treatment and frequent cultivation of plants to insure a steady growth until flowering, excellent large blooms with long stems can be obtained.

Queen of the Market Aster

(EARLY)

	Pkt.	1/2 oz.	Oz.
Extra-Early White.....	\$o 10	\$o 50	\$1 50
" " Crimson.....	10	50	1 50
" " Rose.....	10	50	1 50
" " Dark Blue.....	10	50	1 50
" " Light Blue.....	10	50	1 50
" " Finest Mixed.....	10	40	1 40

COLLECTION: Packet each, 5 varieties.....\$0 40

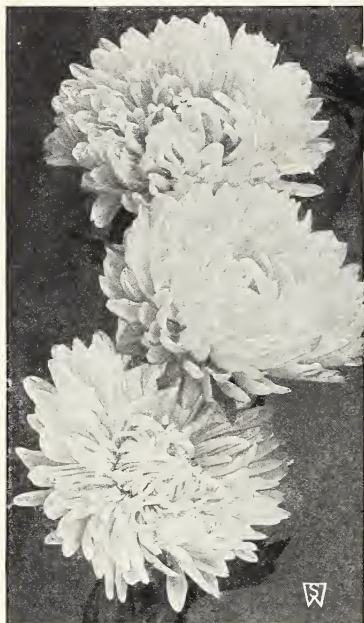
Ostrich-Feather Aster

(MIDSEASON)

This splendid Ostrich-feather Aster comes to bloom after Queen of the Market. The plants grow tall and branching, bearing flowers of mammoth size on exceedingly heavy, long stems. Many stems have measured 18 to 24 inches in length. The flowers are large, frequently measuring 6 to 8 inches in diameter.

	Pkt.	1/2 oz.		Pkt.	1/2 oz.
White	\$o 15	\$1 00	Rose	\$o 15	\$1 00
Dark Blue	15	1 00	Crimson	15	1 00
Syringa-Blue. Beautiful blue..	15	1 00	Mixed	10	75

COLLECTION: Packet each, 5 varieties.....\$0 60



S. & W. Co.'s Queen of the Market Strain Asters

S. & W. Co.'s Late Branching Aster

(LATE)

This exceptionally fine Aster is without a rival. It is as well known in Europe as in America, and although we placed it on the market only a few years ago, today every florist has a fine stock of the flowers in his window just taken for the chrysanthemum comes in; and it is often mistaken for the chrysanthemum, which it so much resembles. The flowers are of extraordinary size—much larger than other varieties—and stand erect on long, graceful stems, well above the foliage; flower-stems 15 to 20 inches long. Grand for cutting. Plants extra large and of strong growth; one plant will cover a space 2 1/2 feet square. By far the most satisfactory Aster grown.

	Pkt.	1/2 oz.
Pure White.....	\$o 10	\$o 50
Rose-Pink.....	10	50
Purple.....	10	50
Shell-Pink.....	10	50
Lavender.....	10	50
Crimson.....	10	50
Mixed.....	10	40

Any of the above, \$1.50 per oz.

COLLECTION: Packet each, 6 varieties.....\$0 50

Giant Victoria Aster

A flat, solid, deep flower produced in masses on a compact, fairly dwarf plant, good for pots.

	Pkt.	1/2 oz.		Pkt.	1/2 oz.
White.....	\$o 15	\$1 00	Light Blue.....	\$o 15	\$1 00
Rose.....	15	1 00	Dark Blue.....	15	1 00
Crimson.....	15	1 00	Choice Mixed.....	10	75



S. & W. Co.'s Late Branching Aster

ASTERMUMS

A splendid new race of American-raised Asters, selected from the Comet Type. The plants are of upright growth frequently having 12 to 15 strong sturdy stems 18 to 24 inches long each carrying enormous flowers of splendid form, the petals completely covering the center so as to give the impression of one of the large Japanese chrysanthemums. This Aster has been grown with excellent success this past season.

	Pkt.	½oz.
Snow-White	\$o 15	\$1 00
Rose-Pink	15	1 00
Lavender	15	1 00

COLLECTION, 1 pkt. each of the above 3, 35 cts.

Giant Comet Asters

Flowers of immense size, often 6 inches across, composed of long, wavy, twisted petals, gracefully formed into loose, yet densely double half-globes. Each plant bears 15 to 20 flowers on very long stems, making them especially valuable for cutting.

	Pkt.	½oz.
Snow-White	\$o 15	\$1 00
Rose	15	1 00
Light Blue	15	1 00
Dark Blue	15	1 00
Crimson	15	1 00
Shell-Pink	15	1 00
Mixed	10	1 00

COLLECTION, 1 pkt. each of 6 varieties, 75 cts.

Giant Crego Asters

A flower of the Giant Comet type, often measuring from 4 to 5 inches in diameter and resembling large chrysanthemums. They are of strong growth, attaining the height of 3 feet.

	Pkt.	½oz.
White	\$o 15	\$1 00
Rose	15	1 00
Light Pink	15	1 00
Lavender	15	1 00
Crimson	15	1 00
Mixed	10	1 00

Single Comet Asters

This type of Asters has met with considerable demand recently. From a decorative point of view the possibilities are immense; their large blooms, often measuring 5 to 6 inches across, make them truly conspicuous.

	Pkt.	½oz.
White	\$o 15	\$1 00
Light Rose	15	1 00
Bright Rose	15	1 00
Light Blue	15	1 00
Dark Blue	15	1 00
Mixed	10	1 00

COLLECTION, 1 pkt. each of 5 varieties, 60 cts.

Daybreak

Of symmetrical growth and habit; attains a height of 18 inches, and produces during August in the greatest profusion perfect globe-shaped double flowers, which are of a delicate pink tint. **Pkt. 15 cts., ½oz. \$1.**

Purity

This variety is identical in every way to Daybreak, being of the same symmetrical growth, height and free-flowering qualities; the flowers, however, instead of being pink, are pure glistening white. **Pkt. 15 cts., ½oz. \$1.**

Mikado Pink Rochester

A Comet variety, very similar to the Crego's Giant offered, but dwarf in growth and comes into bloom fully two weeks earlier. The plants attain a height of about 18 inches, of branching habit, and the flowers, borne on long, strong stems, are of colossal size, flowers 5 and 6 inches across being the rule. A charming shade of pink suffused with lavender. **Pkt. 15 cts., ½oz. \$1.**



ASTERMUM

HARDY PERENNIAL ASTERS

Michaelmas Daisies

These handsome flowers are very beautiful and easy of culture.

	Pkt.	½oz.
<i>Alpinus speciosus</i> . Dark blue; height 2 ft. July.....	\$o 15	\$1 00
<i>Alpinus albus</i> . White.....	15	1 00
<i>Bessarabicus</i> . Pink; 3 feet. August.....	15	1 00
<i>Novae-Angliae</i> . Mixed; 4 feet. September.....	15	1 00

Sub-caeruleus. Large flowers, 3 inches across; forming broad masses of silvery green foliage and sheets of flowers yellow center; 2 feet..... **25 1 50**

ASPERULA odorata (Sweet Woodruff). Hardy perennial. Handsome creeping plant, with deep green whorled foliage and pretty white flowers. Especially useful for carpeting in shady situations; 6 inches. June and July. **Pkt. 10 cts., ½oz. 50 cts.**

AUBRIETIA (False Wall Cress). Pretty, dwarf-growing rock plants, forming broad masses of silvery green foliage and sheets of flowers in spring and early summer.

Bougainvillei. Showy purple flowers. **Pkt. 15 cts.**

Leichtlinii. Bright reddish crimson. **Pkt. 15 cts.**

BABY'S BREATH. See *Gypsophila*.

BACHELOR'S BUTTON. See *Centaurea*.

BALLOON VINE. Annual climber. Flowers white; seed-vessels like small balloons; pretty foliage; grows rapidly; 8 feet. **Pkt. 10 cts., ½oz. 25 cts.**

BAPTISIA australis (False Indigo). Hardy perennial. Free-growing plant, with deep green cut foliage and lupine-like dark blue flowers in long racemes. 3 feet. June and July. **Pkt. 10 cts., ½oz. 75 cts.**

BARTONIA aurea. Hardy annual. Very bright golden flowers from July to September. Fine for cutting. 1 foot. **Pkt. 10 cts., ½oz. 50 cts.**

BOCCONIA cordata (Plume Poppy, or Tree Celandine). Effective, hardy perennial for single specimens or groups on lawns. Foliage glaucous green, bears freely spikes 2 to 3 feet long of cream-colored flowers; easily raised from seed. 5 feet. **Pkt. 10 cts., ½oz. 50 cts.**



DOUBLE CAMELLIA-FLOWERED BALSAM

DOUBLE CAMELLIA-FLOWERED BALSAM (Lady's Slipper)

An old and favorite garden flower, producing its gorgeous masses of beautiful, brilliant-colored, double flowers in the greatest profusion; of easiest culture; succeeds in a good, rich soil. Tender annuals. 2 feet. Start the seed indoors in April, or sow out-of-doors in May. When specimens are wanted, plant at least 18 inches apart; splendid when grown in pots.

	Pkt.	Oz.
White Perfection. Large; double; white;.....	\$o 10	\$1 00
Scarlet King. Glowing, fiery scarlet; large, double flowers.....	10	1 00
Salmon Queen. Deep rose-pink; large, double flowers.....	10	1 00
Lilac Gem. Beautiful pale lilac.....	10	1 00
Purple King. Double; rich purple.....	10	1 00
Primrose Gem. Double; beautiful primrose; the best yellow variety to date.....	10	1 00

COLLECTION: 1 pkt. each, 6 named varieties, 6 pkts., 50 cts.

S. & W. Co.'s Double, Mixed. A mixture of selected self-colors as well as beautiful, spotted, blotched and striped varieties. Pkt. 10 cts., oz. \$1.

BEGONIAS

Everblooming Bedding Varieties

The following varieties of *Begonia semperflorens* and *gracilis* take rank as bedding plants with geraniums and coleus, doing equally well in full sunlight, and surpassing both in positions partially or wholly in shade. They are of sturdy growth, growing about 1 foot high, and forming dense bushes which, from May until frost, are completely hidden with flowers. As pot-plants for winter flowering they are superb, remaining a sheet of blooms throughout the entire year. Easily raised from seed, which should be started either indoors or in a hotbed.

Pkt.	Pkt.
Gracilis, Prima Donna. Carmine-rose; brown-tinted foliage. \$o 25	Gracilis, Bonfire. Scarlet; metallic brown foliage..... 25
Gracilis luminosa. Brilliant dark scarlet; very effective..... 25	Semperflorens Erfordii. Rosy carmine; green foliage..... 15
Semperflorens, Triumph. Pure, glistening white..... 15	Semperflorens, Vernon. Bright orange-carmine; red foliage..... 25
Tuberous-rooted Single, Mixed. Excellent for indoor culture only..... 15	Tuberous-rooted Double, Mixed. The double form..... 25

BELLIS (English Daisy)

A favorite perennial, which will stand the winter if given the protection of a little litter. In bloom from early spring until well on in the summer. Easily raised from seed, which may be sown any time from spring until August. For best results, new plants should be raised from seed each year. The following are the finest double-flowering kinds, selected after careful test.

Pkt.	Pkt.
Giant-flowering White. \$o 25	Snowball. White..... \$o 15
" Pink. 25	Longfellow. Pink..... 15
" Mixed. 25	Double Red Quilled. 25

BEAN, Scarlet Runner. The well-known rapid-growing annual climber, with bright red flowers from July to September. Fruit is a most delicious vegetable. 8 feet. Pkt. 10 cts.

BRACHYOOME (Swan River Daisy). Free-flowering, dwarf-growing annuals, covered during the greater part of the summer with a profusion of pretty blue or white flowers, suitable for edgings, small beds or pot culture; 9 inches.

Iberidifolia, Blue. Pkt. 10c. | **Iberidifolia, White.** Pkt. 10c.

BROWALLIA (Amethyst)

One of our favorite profuse-blooming bedding plants, covered with rich, beautiful winged flowers during the summer and autumn months, supplying a shade of intense blue very uncommon; grows freely in any rich soil; blooms finely in the winter if the plants are lifted in autumn and cut back.

Speciosa major. A beautiful-flowering variety of the most brilliant ultramarine-blue; a rare color; does finely outside in the border, or in hanging-baskets or vases, but is especially valuable as a pot-plant for winter and early spring flowering. Pkt. 25 cts.

Nana compacta. Blue. Pkt. 15 cts.

Mixed Colors. Pkt. 10 cts.

CACALIA coccinea (Tassel Flower, or Flora's Paint Brush). A neat annual, of easy culture, with bright red, tassel-shaped flowers; blooms from June to September, fine for borders. Pkt. 10 cts., 1/4 oz. 60 cts.

CALCEOLARIA G.P.

The strains offered herewith are grown by a famous English seed-growing specialist and are the finest in existence. The S. & W. Co.'s Giant Strain is intended for conservatory growing; the Rugosa for outside bedding.

S. & W. Co.'s Giant Strain. Pkt. 50 cts.

Rugosa. Shrubby; for bedding. Pkt. 50 cts.

CHELONE (Turtle Head)

Barbata coccinea. Red. Summer. 3 feet. Pkt. 10 cts., 1/4 oz. 50 cts.

Barbata Torreyi. Coral-red. Summer. 3 feet. Pkt. 10c., 1/4 oz. 50c.

Lyoni. Deep red. Summer. 2 feet. Pkt. 10 cts., 1/4 oz. 50 cts.

CERASTIUM tomentosum (Snow-in-Summer). A very pretty dwarf, white-leaved edging plant, bearing small white flowers; hardy perennial. Pkt. 15 cts.

CALENDULA (Pot Marigold)

This is one of the best and showiest, free-flowering hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders; particularly bright in late fall, continuing in bloom from early summer until killed by frost; valuable also for pot culture, blooming freely in winter and early spring. 1 foot.

Meteor. Large; double; yellow, each petal striped with orange. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

Prince of Orange. Similar to Meteor, but darker. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

Sulphurea fl.-pl. Large, double flowers of pleasing sulphur-yellow. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

Ranunculoides fl.-pl. Striped and margined. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

Pongel fl.-pl. Large, double, white flowers. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

CALLIOPSIS

Showy and beautiful, free-flowering annuals and perennials, of the easiest culture, doing well in any sunny position, blooming all summer and excellent for cutting and massing. It is best to sow them where they are to bloom, thinning out to stand 6 inches to 12 inches apart. By keeping the old flowers cut off the flowering season can be lengthened until late autumn.



CAMPANULA PYRAMIDALIS

ANNUAL VARIETIES

Golden Wave (Drummondii). A very popular sort, with rich golden yellow blooms with a small chestnut-brown center. 12 inches. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

Tinctoria marmorata. Very showy variety; bright golden yellow flowers, marbled with wallflower-red. 12 inches. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

Coronata. Rich yellow, slightly spotted with red. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

Tall, Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

Dwarf, Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

PERENNIAL VARIETIES

(Coreopsis)

The following two varieties of Perennial Calliopsis are usually sown in June and transplanted 18 to 24 inches apart. Give slight winter covering. May be had in flower the first year if sown under glass in January.

Grandiflora. Deep golden yellow, cup-shaped flowers, on fine stems for cutting. 2 feet. All summer. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

Lanceolata grandiflora. Same as above except that the foliage is lance. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.



CALENDULA

CAMPANULA, or BLUEBELLS

PERENNIAL VARIETIES

These are among our best-known hardy perennials. The tall varieties are fine for cutting, while the dwarf sorts make excellent border plants. All have dainty bell-shaped flowers. Some of the varieties offered will flower the first season from seed if sown early.

FOR BIENNIAL VARIETIES, SEE NEXT PAGE

Carpatia. This variety is largely used for edging. Flowers of deep blue, blooming all summer. Height about 6 inches. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

Carpatia alba. The white-flowered form of the above. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

Macrantha. Blue. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

Persicifolia grandiflora, Blue (Peach Bells). One of the finest of the hardy Bellflowers; grows 2 to 3 feet high, with large, blue flowers. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.50.

Persicifolia grandiflora alba. The white-flowered form of the above. Pkt. 15c., $\frac{1}{4}$ oz. \$1.50.

Persicifolia fl.-pl., Moerheimii. Similar to the varieties above except that the flowers are double; pure white. Pkt. 25 cts., 5 pkts. \$1.

Persicifolia, Fairy Queen. The finest-colored Bluebell. Rich azure-blue, very large flowers. Pkt. 25 cts., 5 pkts. \$1.

Pyramidalis (Chimney Bellflower). Spikes 3 to 4 feet tall; erect, pyramidal flowers, large and of beautiful blue. Splendid for both garden and pot culture. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

Pyramidalis, White. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

CANARY-BIRD FLOWER (Tropaeolum). A rapid-growing, climbing annual, producing hundreds of its pretty, fringed, bright yellow flowers, which resemble a canary-bird with expanded wings. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

CAMPANULA MEDIUM

(Canterbury Bell)

These are strictly biennials, and require to be sown from June 1 to September 1; when strong enough, transplant to a distance of 6 inches apart; after frost has set in, protect with leaves and straw. They flower the following June, after which they die. Their colors are so pure that gorgeous effects can be achieved with them.

	Pkt.	1/2 oz.		Pkt.	1/2 oz.
Single White.....	\$10	\$0 50	Single Striped.....	\$10	\$0 50
Single Rose.....	10	50	Single Mixed.....	15	50
Single Blue.....	10	50	Double Mixed.....	10	40

CAMPANULA CALYCANTHEMA

(Cup-and-Saucer)

These produce beautiful, large, single flowers resembling a cup and saucer; they require the same treatment as *Campanula Medium*.

	Pkt.	1/2 oz.		Pkt.	1/2 oz.
Blue.....	\$15	\$1 00	Rose.....	\$15	\$1 00
White.....	15	1 00	Striped.....	15	1 00
			Mixed.....	10	75

CANDYTUFT (Iberis)

The Candytuft is almost as fragrant as the sweet alyssum and very popular. Very useful as a bedding plant or for border work. Sow outdoors in April, where it is to bloom, and thin well when the plants grow about 1 inch. Sow also in July for fall blooming. Where grown in rows, best results for cut-flowers can be obtained only by giving the plants at least a foot apart in the rows and 1 1/2 feet between the rows.

S. & W. Co.'s Giant Hyacinth-flowered. Immense white spikes; largely grown for cut-flowers. Pkt. 15 cts., oz. \$2.
Empress. Excellent; white. Pkt. 10 cts., oz. \$1.
Queen of Italy. Fine pink. Pkt. 10 cts., oz. 75 cts.
Dunnett's Crimson. Deep crimson. Pkt. 10 cts., oz. 75 cts.
White Rocket. Large trusses. 1 foot. Pkt. 10 cts., oz. 75 cts.
Pink Beauty. New. Fine pink. 1 foot. Pkt. 15 cts., oz. \$2.
Lilacina. Lilac. 1 foot. Pkt. 10 cts., oz. 75 cts.
Purple. Purple. 1 foot. Pkt. 10 cts., oz. 75 cts.
Mixed, All Colors. Pkt. 10 cts., oz. 50 cts.

PERENNIAL CANDYTUFT

A very early-flowering variety; largely used in the hardy border. Foliage exceedingly pleasing in color and very decorative.

Gibraltarica. White, shaded pink. Pkt. 15 cts., oz. \$3.
Sempervirens. Pure white flowers; evergreen foliage. Pkt. 15 cts., oz. \$2.50.



CAMPANULA MEDIUM

CARNATIONS

Carnations are general favorites for their delicious fragrance and richness of colors. They are indispensable, both for greenhouse culture in winter and for the garden in summer. The Marguerite and Chabaud's type are the best for summer-flowering.

Chabaud's Everblooming. Raised by a famous French specialist. Blooms in five months after being sown, and continues to flower in the greatest profusion indefinitely. Mixed colors. Pkt. 25 cts., 5 pkts. \$1.

GIANT MARGUERITE CARNATIONS

These are deservedly the most popular Carnations with the amateur, as they begin flowering in July or August if sown early in the spring. The strain offered is of extra-fine quality, producing on long, strong stems an abundance of large, double, beautifully fringed, highly scented flowers; with slight protection they will survive an ordinary winter and bloom freely the following spring.

Giant Pink	Giant Scarlet
Giant White	Giant Striped
Giant Crimson	Giant Mixed

Pkt. of any of the above, 10 cts., 1/2 oz. \$1, oz. \$3
COLLECTION: 5 pkts., 5 varieties..... 40 cts.

**AMERICAN LONG-STEMMED, PERPETUAL-
FLOWERING CARNATION**

America has led the world the last few years in developing the Carnation. Our improved kinds, such as the florists grow for cut-flowers, produce immense flowers of perfect form and doubleness and on strong, long stems, and the colors are varied and beautiful. The seed is saved from such varieties as White Perfection, Windsor, Aristocrat, and Lady Bountiful. In mixture only.

Mixed Colors. Pkt. 25 cts.



GIANT HYACINTH-FLOWERED CANDYTUFT

CASTOR-OIL PLANT (Ricinus)

The Ricinus are tall, stately growing plants of tropical appearance; their luxuriant foliage renders them exceedingly ornamental. They are free-growing, tender annuals of easy cultivation. Half-hardy annuals. Pkt.
Africanus. Very large green foliage. \$0 10
Zanzibarensis. New Giant Castor-Oil Plant from Africa. 10
Borboniensis arboreus. Large and handsome green foliage. 15 feet. . 10
Communis (Castor-Oil Plant). Green foliage. 6 feet. 10
Gibsonii. Dark, purplish-red foliage. 6 feet. 10
Cambodgensis. Leaves bronzy maroon, with red veins; stems black. . 10
Duchess of Edinburgh. Dark red foliage. 6 feet. 10
Gibsoni mirabilis. Dwarf, compact; very fine. 10
Sanguineus. Tricolor, red spotted; fruit in clusters; red foliage. 10 ft. . 10
Mixed. lb. \$2, oz. 25 cts. . . 10

CELOSIA

Celosia cristata (Cockscomb)

Free-blooming annuals, growing best in rather light soil, not too rich; make grand border plants and are attractive for pots. Seed can be sown under cover in early spring and planted out in May, or may be sown outdoors in May. If dwarf growth is desired, do not crowd.

Empress. Rich crimson. 1 foot. Pkt. 15 cts., 1/4 oz. \$1.
Glasgow Prize. Dark crimson. 1 foot. Pkt. 15 cts., 1/4 oz. \$1.
Dwarf Mixed. 1 foot. Pkt. 10 cts., 1/4 oz. 75 cts.

Celosia plumosa (Feathered Cockscomb)

Make fine plants for large beds or groups, and the plumes or flowers can be cut and dried for winter bouquets. Should be treated same as Cockscomb described above.

Ostrich-plumed, Crimson. Pkt. 10 cts., 1/4 oz. 50 cts.
Ostrich-plumed, Yellow. Pkt. 10 cts., 1/4 oz. 50 cts.
Ostrich-plumed, Mixed. Pkt. 10 cts., 1/4 oz. 50 cts.



CASTOR-OIL PLANT

Celosia Thompsonii magnifica

Improved Strain of Feathered Cockscomb

Thompsonii magnifica is of pyramidal growth, often attaining the height of 3 feet, and producing graceful, feathery plumes of the most magnificent shades, ranging from the clearest yellow to the darkest blood-red.

Thompsonii magnifica, Crimson. Bright crimson. Pkt. 15 cts., 1/4 oz. \$1.

Thompsonii magnifica, Yellow. Beautiful yellow. Pkt. 15 cts., 1/4 oz. \$1.

Thompsonii magnifica, Mixed. Pkt. 10 cts., 1/4 oz. 75 cts.

Celosia, Pride of Castle Gould

An entirely distinct type of the *Celosia pyramidalis plumosa*, and surpasses by far anything thus far placed on the market. This strain has through constant culture and careful selection and hybridization proved its superiority to anything similar ever offered.

HABIT OF PLANTS.—Pyramidal, compact growth of from 2 to 3 feet, with immense, extra-fine feathered heads, gives the plant a most striking appearance.

COLOR.—The following distinct colors are among these hybrids: Blood-red, real carmine, golden yellow, salmon, deep scarlet, dark orange and wine-red; however, by variation there will be found many more shades; the self-coloring will be surprising.

This illustration is from a photograph taken on the estate of M. C. D. Borden, Oceanic, N. J. (William Turner, Supt.). The following is a description by William Turner: "Celosia Castle Gould is admirably adapted for growing along in pots for decorative purposes or for planting out in beds, provided the beds are situated to receive full benefit from the sun's rays. Castle Gould is a decided improvement over all other Celosias, both for richness of colors and the massive plumes this variety produces. Being a free, vigorous grower, it is not necessary to sow the seed for outdoor planting until say the middle of March. They would then be nice, vigorous plants in 3- or 3 1/2-inch pots, ready for placing in the beds about the end of May. With a little care, they would be a mass of gorgeous plumes until killed down by frost." Per pkt., mixed shades, 25 cts., 5 pkts. \$1.



CELOSIA, PRIDE OF CASTLE GOULD

CENTAUREAS

There is, perhaps, no more popular annual than the Centaurea. Will grow well anywhere and as a cut-flower is much in demand.

Cornflowers (*Centaurea Cyanus*)

SOMETIMES CALLED BACHELOR'S BUTTON, BLUE BOTTLE, RAGGED SAILOR, ETC.

This type of Centaurea is well known and no garden is complete without them. Seeds should be sown in the spring or fall. When large flowers are wanted, plants should be thinned out to a space of say 8 square inches.

Cyanus, Blue. Old-fashioned blue cornflower. Pkt. $\frac{1}{2}$ oz.	
" Rose Well-known favorite cut-flower.....	\$o 10 \$o 30
" White	10 30
" Victoria. A very dwarf mixture, used for borders or pots; grows 8 inches high...	10 50
" Mixed Single	10 30

Cyanus, Double Blue. A variety largely used by the commercial florist on account of its large size. Much in demand for cutting, taking fewer than the single varieties to make a bunch.....	15 75
Cyanus, Double Mixed	10 40

Giant Sweet Sultans (*Centaurea imperialis*)

This beautiful class is undoubtedly the finest of all the Sweet Sultans for cutting purposes. Beautiful, deliciously sweet-scented flowers are borne on long, strong stems and are particularly striking, lasting several days after cutting. We recommend sowing in succession every two weeks from May until July, thereby giving a continuous bloom from summer to fall.

Imperialis, White. Large and exquisitely sweet-scented.

Imperialis, Pink. Pink, with tinge in center.

Imperialis, Purple. Brilliant rosy purple.

Imperialis, Lilac. Beautiful lilac.

Imperialis, Rose. Brilliant rose.

Imperialis, Mixed. A select mixture of above colors.

Pkt. of any of the above, 15 cts., $\frac{1}{2}$ oz. 50 cts.

COLLECTION: One pkt. each of the 5 colors, 50 cts.



CENTAUREA CYANUS (Cornflower)

Four Fine Centaureas (For Greenhouse Growing)

The following four varieties are largely grown by florists during the winter months for cut-flowers.

Suaveolens (Yellow Sweet Sultan). Very showy bright yellow flowers; sweetly scented.....	Pkt. $\frac{1}{2}$ oz.	\$o 10 \$o 30
Odorata. Beautiful large flowers of light blue color; deliciously scented.....	15 75	
Odorata, Chameleon. Large flowers of pale sulphur-yellow, changing to rosy lilac.....	15 1 50	
Marguerite (Giant White Cornflower). Flowers 4 inches across, purest white and very fragrant.....	10 75	

White-leaved Centaureas (Dusty Millers)

Extensively used for edging of beds or borders of the flower garden. The glistening white contrasted with the bright color of the Coleus, Salvia or Red Canna is very striking.

Candidissima. Thick white leaves grown for their foliage only; make excellent plants for edgings, are hardy annuals and grow rapidly. Leaves are very lanceol and are silver-coated.....	Pkt. $\frac{1}{2}$ oz.	\$o 10 \$o 75
Gymnocarpa (Dusty Miller). Leaves fern-like and a trifle taller than Candidissima.....	10 50	

Various Centaureas

Moschatus cærulea (Sweet Sultan) Blue. Identical in color with Emperor William in the regular Bachelor Button type.....	Pkt. $\frac{1}{2}$ oz.	\$o 10 \$o 50
Moschatus, White	10 50	
" Mixed	10 40	



CENTAUREA IMPERIALIS (Giant Sweet Sultan)

CINERARIA

Seed should be sown from May to September where a succession is desired. When sown at this time, fine plants may be secured. The main point in the culture of Cinerarias is to secure as hardy a growth as possible with leaves of medium size. Seed may be transferred direct from seed-pans to thumb-pots. After planting, place in coldframe facing north, if possible. As pots become full of roots, shift to larger ones until flowering size is reached.

**S. & W. Co.'s Giant-flow-
ering Mixed.** This strain of Cineraria is grown for us by a famous English seed specialist. The flowers seldom measure less than 3 inches in diameter, comprising the following colors: White, rose, flesh, crimson, blue, violet, etc. The plants are of a very robust dwarf habit, which, combined with the mass of giant blooms, makes this strain exceedingly valuable. **Pkt. 50 cts.**

Matador. A new, large-flowering, deep scarlet; one which adds brilliance to a collection. **Pkt. 50 cts.**

S. & W. Co.'s Stellata.

Delicate star-like blooms are borne in great profusion on long stems, giving this variety a double use, as it is excellent for cutting as well as decorative purposes; all shades.

Tall Mixed. Pkt. 50 cts.

Dwarf Mixed. Pkt. 50 cts.

ANNUAL CHRYSANTHEMUMS

These improved varieties form bushy, compact, oval plants about 18 inches high, are of easy cultivation, and flower most abundantly during the summer; very showy garden annuals and fine for cutting.

SINGLE-FLOWERING VARIETIES

Beaconsfield. White, with pink center. Pkt. 10 cts.

Chameleon. Brown, with yellow center. Pkt. 10 cts.

Evening Star. Sheeted with large single golden yellow flowers. Pkt. 10 cts.

Morning Star. Large, cream-yellow flowers; profuse. Pkt. 10 cts.

The Sultan. Deep scarlet. Pkt. 10 cts.

Mixed Single Annual Varieties (*Chrysanthemum tricolor*). Pkt. 10 cts.

DOUBLE-FLOWERING

VARIETIES

Golden Queen. Double golden flowers. Pkt. 10 cts.

White Pearl. Double white flowers. Pkt. 10 cts.

Mixed Double Annual Varieties. Pkt. 10 cts.

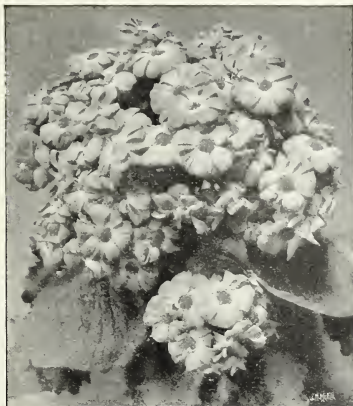
CHRYSANTHEMUMS

PERENNIAL

Maximum (Hardy White Daisy). Large flowers; perfectly hardy. 3 ft. July to October. Pkt. 10 cts.

Maximum leucanthemum (Common Shasta Daisy). Pure white, very large. 3 ft. July to October. Pkt. 10 cts.

Uliginosum (Giant Daisy). One of the best late-blooming perennials from Russia. Stout, upright plants, with pure white flowers. 5 ft. August to October. Pkt. 25 cts.



S. & W. Co.'s Giant-flowing Cineraria



Annual Chrysanthemums

CLARKIA ELEGANS

A mighty handsome annual, which should be far more widely known. It is of easy cultivation, graceful in habit of growth, and lends itself as well to bedding as for cutting. The flowers are borne all along the stems and resemble carnations to quite an extent. 1 ft. July to October.

	Pkt.	1/2 oz.
Single Rose	50	10
" White	10	30
" Mixed	10	25
Double Salmon Queen.	10	50
" White King	10	50
" Rose	10	50
" Finest Mixed	10	40

CLEMATIS (Virgin's Bower). Beautiful ornamental plants, fine for covering trellises or making a screen. Seeds vegetate only after an interval of several months, when they will grow. Hardy perennial.

Jackmanii Varieties. Seed saved from best named varieties. Pkt. 10c.

Paniculata. Small, white. Pkt. 10c.

CLEODENDRON fallax. Handsome, erect-growing greenhouse plants; large spikes of fiery scarlet bloom. Pkt. 75 cts.

CLEOME pungens (Giant Spider Flower). Singular-looking, rose-colored flowers; the stamens look like spiders' legs, and present a very attractive appearance; annual; 3 feet. This plant is now used extensively in many of the public parks, planted among shrubbery, and is very effective. Pkt. 10 cts., 1/2 oz. 25 cts.

CLIANTHUS Dampieri. Greenhouse plants, with pea-shaped scarlet flowers. Seed should be soaked in water before sowing. Pkt. 5 cts.

COBÆA (Cup-and-Saucer Vine)

A climber of rapid growth, attaining a height of 30 to 50 feet during the season, valuable for covering trellises, arbors, trunks of trees, etc.; will cling to any rough surface. In sowing, place seeds *edgewise* and merely cover with light soil; to get early results, start the seed indoors in March or April; can also be sown out-of-doors in May.

Scandens. Large bell-shaped purple flowers. Pkt. 10 cts., 1/2 oz. 25 cts.

Scandens alba. Pure white. Pkt. 15 cts., 1/2 oz. 50 cts.

COLEUS, S. & W. Co.'s Exhibition Strain Mixed. Pkt. 20 cts

CONVOLVULUS

(Morning-Glory)

These well-known favorites ought to be in every garden. Nothing can be finer for color than a bed of these.

Dwarf Bedding Varieties. Mixed. Pkt. 5 cts., oz. 20 cts.

Tall or Climbing Varieties. Mixed. Pkt. 5 cts., oz. 20 cts.

Giant Imperial Japanese

A magnificent advance on the old-fashioned Morning-Glories. The enormous flowers, exquisite colors and beautiful foliage make them, without doubt, the most beautiful climbers in existence.

Japanese Mixed. Pkt. 10 cts., oz. 25 cts., 1/2 lb. 50 cts.

COSMOS

This is one of the most notable summer and fall flowers, the specialists' skill having added much to its beauty. Many professional gardeners sow their Cosmos late in the spring, as it has been demonstrated, particularly with the Late Mammoth-flowering Tall Cosmos, that early sowing frequently makes enormous, heavy-wooded plants which do not flower any earlier than if sown later.

We recommend the sowing of Cosmos about the first of May, outdoors in rows, covering the seed about $\frac{1}{4}$ inch, and when the plants are about 3 inches high, thin out or transplant to not less than 2 feet apart. Any garden soil will grow Cosmos to perfection; frequent cultivation around the base of the plants will greatly benefit them.

Extra-Early Flowering Dwarf Cosmos

Frequently the amateur finds that the Cosmos of the Late-flowering Tall type, selected by him for growing in borders or beds with other annual flowers, is unsuitable because of its flowering late in the summer, and also growing to the height of 6 to 8 feet. We, therefore, take pleasure in offering this new Early-flowering Dwarf Cosmos, which, if sown outdoors about the first of May, will give an abundance of cut-flowers for the table or home decoration from July until cut down by frost.

This type of Cosmos grows about 4 feet high, and while the flowers are not quite so large as the Late Mammoth-flowering type offered on this page, they are admirably adapted to the use of the suburbanite whose garden-space is small. To those who desire the larger-flowering type, which flowers late, after most other flowers are past, we recommend our Late Mammoth-flowering Tall Cosmos.

	Pkt.	$\frac{1}{2}$ oz.	Oz.
Early-flowering, White	\$0 10	\$0 75	\$2 50
" " Pink	10	75	2 50
" " Crimson	10	75	2 50
" " Mixed	10	75	2 50

Late Mammoth-flowering Tall Cosmos

This type of Cosmos, which has been greatly improved over the old tall small-flowering varieties, flowers late in the summer—usually September in this latitude—and coming at this season of the year, when nearly everything in the garden has finished blooming, it is a very desirable addition.

These tall, graceful plants are most effective when planted in broad masses along background borders against evergreens or shrubs. The gigantic flowers, borne on long stems, and the feathery foliage lend themselves to graceful arrangements for bouquets.

	Pkt.	Oz.
Mammoth Tall, White	\$0 10	\$1 00
" " Pink	10	1 00
" " Crimson	10	1 00
" " Mixed	10	1 00
Choice Mixed	05	50



MAMMOTH TALL WHITE COSMOS

Lady Lenox. This is the very latest development of this popular autumn flower, bearing gigantic flowers, the petals having a wide overlapping character and of splendid substance; its beautiful, deep rosy pink color and splendid form make this Cosmos one of the most widely grown. Pkt. 10 cts., $\frac{1}{2}$ oz. 50 cts., oz. \$1.50.

Lady Lenox, White. Similar to above, but white. Pkt. 15 cts., $\frac{1}{2}$ oz. \$1. oz. \$3.

CIGAR PLANT (Cuphea). With cigar-shaped, scarlet flowers; very useful for bedding; free bloomer. Half-hardy perennial.

PLATYCENTRA. Scarlet and white. Pkt. 10 cts.

CYPRESS VINE (*Ipomoea Quamoclit*). The most popular of annual climbing plants, with delicate, fern-like foliage.

	Pkt.	$\frac{1}{4}$ oz.		Pkt.	$\frac{1}{4}$ oz.
Crimson	\$0 10	\$0 25	Rose	\$0 10	\$0 25

Ivy-leaved Scarlet. A rapid-growing variety with deeply lobed, ivy-like leaves and small scarlet flowers. Pkt. 10 cts., oz. 75 cts.

DAHLIA. The seed we offer has been saved from a superb collection of the finest-named varieties. Half-hardy perennial. Pkt.

Giant Peony-flowered, Mixed. Saved from finest blooms. \$1 15

Pompon, Mixed. Saved from Pompons. 15

Cactus, Mixed. Saved from a choice collection. 15

Twentieth Century. Saved from a choice collection of Single Century Dahlias. 15

Double-flowering, Mixed. Saved from fine, double, Show sorts. 15

S. & W. Co.'s Giant-Flowering Cyclamen

Flowers of extraordinary size and of great substance. The leaves are proportionately large and beautifully marked. These are among the most beautiful winter- and spring-flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental. Sow seed from August to September and do not permit same to become checked. When grown cool, most satisfactory results are obtained.

This seed is grown for us by the grower of the best Cyclamen plants coming to the New York market. They are unsurpassed in size of bloom, color and substance.

The plants, from which this seed is produced, are selected only from those of superior bloom and foliage.

FAIRY QUEEN. A very large, magnificent, frilled white, with a crimson eye.....	Pkt. 100 seeds	\$1 00	\$5 00
PRIDE OF CINCINNATI. A semi-double salmon; very large and free-flowering; one of the finest of its color.....	I 00	5 00	
Glory of Wandsbek. Light and dark shades of salmon.....	50	3 50	
Brilliant Red. Very large and fine.....	50	3 50	
Christmas Cheer. Blood-red.....	50-	3 50	

Rosea superba. A very pretty shade of shell-pink. Large flower and excellent grower..... 50 3 50

Magnifica. Dark rose-pink; very fine..... 50 3 50

Victoria. White, tipped with pink, fringed edge..... 50 3 50

Daybreak. Delicate pink; very beautiful..... 50 3 50

Pure White. Very large..... 50 3 50

White, Pink Eye. Very large and fine..... 50 3 50

Lavender. Dark and light shades, very beautiful..... 50 3 50

DATURA (Trumpet Flower) Cornucopia (Horn of Plenty). A grand annual plant; the flowers average 8 inches long by 5 inches across; French white inside, purple outside; delightfully fragrant. Started early, will flower from early summer until fall. Pkt. 10 cts.



S. & W. Co.'s Giant-Flowering Cyclamen

Pkt. 100 seeds

\$0 50 \$3 50

50 3 50

DELPHINIUM (Perennial Larkspur)

There is perhaps no better known hardy plant than the Delphinium. The beautiful flowers borne on tall stately spikes are a gorgeous sight and a charm to the garden. Sow seeds in early spring in shallow boxes indoors or in a hotbed. When seedlings are about 2 1/2 inch high, transplant to flats 3 or 4 inches apart each way. About a week before planting out remove to the open, taking care to protect them cold days and nights. Set out 6 inches apart in the garden. Plants treated thus usually flower first season during August. In the fall they may be lifted and set out in groups of colors; three or four plants at a distance of 3 feet apart, in the rear of hardy perennials, where they make a fitting background.

Gold Medal Hybrids. This splendid strain is of strong, vigorous habit, with immense spikes from 2 to 3 feet long, of large flowers mostly in fine shades of light blue. We doubt very much if this wonderful strain can be surpassed, and recommend all our patrons desirous of obtaining some choice plants to grow these hybrids. **Pkt. 25 cts., 5 pkts. \$1.**

Chinese (Blue Butterfly). A distinct and neat variety, growing about 18 inches high, with fine, feathery foliage, and producing freely spikes of large blossoms of intense gentian-blue..... \$0 10 \$1 00

Album. The white-flowered form of the preceding..... 10 75

Barolowii. Very large dark blue flowers, extra-fine..... 25 2 00

Belladonna (Everblooming Hardy Larkspur). This is one of the finest and most continuous-blooming Hardy Larkspurs. The clear turquoise blue of its flowers is not equaled for delicacy and beauty..... 5 pkts. \$1. 25

Cardinale. A very beautiful cardinal-scarlet; plants grow about 18 inches high..... 25 2 00

Formosum. Large; rich dark blue, white center; borne on spikes 2 to 3 feet tall; one of the most popular varieties..... 10 1 00

Formosum celestinum. Beautiful sky-blue, white center; similar in habit to the above..... 20 1 50

Hybridum fl.-pl. A grand mixture of double varieties, taking in a great range of colors..... 15 1 50

Nudicaule. Dwarf compact growth, with spikes of bright scarlet flowers. 18 in..... 25

DOLICHOS (Hyacinth Bean)

A rapid-growing annual climber, flowering freely in erect racemes, followed by ornamental seed-pods; for covering arbors, trellises, etc. Sow the seed in the garden in beds where they are to remain. 10 feet. **Pkt. Oz.**

"Daylight." This grand Hyacinth Bean comes from Japan. In our trial-grounds, plants from seed sown late in May had, by the middle of July, attained a height of over 10 feet, and were covered with spikes of snow-white pea-shaped blossoms from then until late fall. The heart-shaped foliage is bright green, and not affected by insect pests..... \$0 10 \$0 50

"Darkness." Identical in every way with the above, except in color, which is a rich purple-violet..... 10 50

Lalab, Mixed..... 05 25



DELPHINIUM

DIANTHUS, or PINKS

The family of Pinks is unrivaled for brilliancy and rich variety of color; the plants are bushy, of symmetrical form—blooming profusely until fall, rendering them most satisfactory for summer flower gardens. Sow out-of-doors when danger of frost has passed and they will, in several weeks become a mass of bloom, continuing until frost.

DOUBLE ANNUAL VARIETIES

Chinensis fl.-pl. (China, or Indian Pink). Blooms in clusters, flowers very double and bloom in a large range of bright colors	Pkt. \$0 05	1/2 oz. \$0 25
Diadematis fl.-pl. (Double Diadem Pink). Beautiful double flowers; mixed of various tints of lilac, crimson, purple; outer edges fringed	10	75
Heddeswig fl.-pl. (Double Japan Pink). Double mixed, color varying from richest crimson to most delicate rose	10	75
Fireball. New. Extra double brilliant dark scarlet, very beautiful	15	1 00
Snowball. Large double white; excellent for border or cutting	10	50
Salmon King. Brilliant salmon-rose	10	50
Lucifer. Brilliant orange-scarlet, flowers measuring about 2 inches across; very dazzling and popular variety; nicely fringed	15	1 25
Lacinatus fl.-pl. (Double Fringed Pink). Large double flowers, edges fringed; in a great variety of colors...	10	75

SINGLE ANNUAL VARIETIES

These single sorts contain many beautiful varieties, flowers often measuring 2 to 3 inches in diameter, and are very effective for borders or beds.

Crimson Belle. Rich crimson. 1 foot	Pkt. \$0 10	1/2 oz. \$0 50
Queen of Holland. Beautiful white	10	75
Easter Queen. Delicately marbled rose and mauve flowers	10	50
Salmon Queen. Beautiful fringed flowers of brilliant salmon color changing to old rose when fading	10	50
Vesuvius. Beautiful orange-scarlet flowers, very striking in beds or borders	10	50
Lacinatus (Single Fringed Pink). Flowers fringed in a great variety of colors	10	35

HARDY GARDEN PINKS

These form low, bushy, tufted plants, above which are produced on long stems the beautiful fringed and fragrant flowers so valued in "old-fashioned" gardens. For permanent beds and borders these Pinks are unrivaled.

Barbatus (Sweet William). Pkt. See page 96.

Latifolius atrococcineus fl.-pl. Hardy perennial. A hybrid between the China Pink and Sweet William. The heads of brilliant red flowers are quite double.



DOUBLE ANNUAL PINKS

Will flower first season from seed
Pumarius, Double Mixed. Double fringed, fragrant flowers of white, crimson or purple shades, spotted and variegated. 12 inches high. 10
Pumarius, Single Mixed. Large, single fragrant flowers of beautiful colors and finely fringed. 05
Scotch, or Florists' Pinks. They are excellent perennial garden plants, about 1 foot high when in bloom; they are vigorous, very hardy, and flower profusely during spring and early summer; the flowers are very large, very double, beautifully fringed, and emit a grateful clover-like perfume. Mixed colors. 35

S. & W. Co.'s Special Mixture of Annual Sorts.

All large-flowering varieties, unrivaled for brilliancy and rich variety of color, and bloom in perfect succession during the whole summer and autumn in such numbers as fairly to crowd each other for room. Mixed colors. Pkt. 10 cts., 1/2 oz. 50 cts.

COLLECTION ANNUAL SORTS: Ten choice Dianthus, five named double and five named single, packet each, for 75 cts.

DIGITALIS (Foxglove) HARDY PERENNIALS

Invaluable for the hardy border and particularly handsome when seen growing among shrubbery.

	Pkt.	1/2 oz.		Pkt.	1/2 oz.
Gloxiniiflora alba. White	\$0 10	\$0 35	Purpurea—		
" Lilacina. Lilac	10	35	" Alba. White	\$0 10	\$0 50
" purpurea. Purple	10	35	" Rubra. Red	10	50
" rosea. Rose	10	35	" Rosea. Pink	10	50
" Lutea. Yellow	10	35	" Mixed.	10	50
" Finest Mixed.	05	30	" Monstrosa, Mixed.	15	1 00



DIGITALIS

ESCHSCHOLTZIA

(California Poppy)

Profuse blooming annuals, for beds, edging or masses. Bloom from early summer until frost. Should be grown in every garden.

California. Giant yellow. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

Alba. Creamy white. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

Carminae. Carmine. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

Golden West. Deep yellow. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

Rose Queen. Deep pink. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

Mandarin. Inner side of petals rich orange, the outer side brilliant scarlet. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

Crocea. Double; orange; very attractive. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

Carmine King. Beautiful carmine-rose on both sides of petals, making a distinct and novel variety. **Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.**

Dainty Queen. Beautiful new shade of Eschscholtzia; pale coral-pink, slightly deeper toward the edges. **Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.**



ESCHSCHOLTZIA, or CALIFORNIA POPPY

Lobata (Wild Cucumber Vine).

One of the quickest-growing annual vines we know of; splendid for covering trellises, old trees, fences, etc. Clean, bright green foliage and sprays of white flowers during July and August. **Pkt. 5 cts., $\frac{1}{4}$ oz. 40 cts.**

ECHINOPS Ruthenicus (Globe Thistle). Striking hardy perennial plants, with handsome, silvery, thistle-like foliage and fine steel-blue flowers in round heads, which can be used for cutting. Excellent for the back of the hardy border among other tall plants. 3 to 5 feet. **Pkt. 10 cts.**

EUPATORIUM ageratoides (Thoroughwort). Hardy perennial. 4 feet. White. August and September. **Pkt. 10 cts.**

Celestinum. Blue. September. **Pkt. 10 cts.**

EUPHORBIA heterophylla (Mexican Fire Plant). A handsome, annual, garden foliage plant. Leaves large and glossy green, often tipped with orange-scarlet. **Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.**

Variegata (Snow-on-the-Mountain). Attractive foliage veined and margined green and white. **Pkt. 5 cts., $\frac{1}{4}$ oz. 30 cts.**

ERYNGIUM amethystinum (Sea Holly). Handsome, ornamental hardy plants, growing to 3 feet high, with finely cut, spiny foliage and beautiful, thistle-like heads of amethystine blue; fine for winter bouquets. **Pkt. 15 cts.**

FEVERFEW. See *Matricaria*.

FUCHSIA. Choice double and single of this well-known, elegant tender pot-plant. Mixed colors. **Pkt. 25 cts.**

FORGET-ME-NOT

(Myosotis)

Few spring flowers are more admired than the lovely Forget-me-not, which is especially effective for mass planting. It is perennial and hardy if given slight protection through the winter. Seed may be sown any time from spring until mid-summer. The *Alpestris* varieties and *Dissitiflora* come into bloom in April, with the spring-flowering bulbs, etc. The *Palustris* sorts do not bloom till May, but continue till fall.

Alpestris, Royal Blue. Rich indigo-blue flowers. The finest and most effective dark blue variety; grows about 9 inches high. **Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.**

Alpestris robusta grandiflora. A strong, sturdy grower attaining a height of about 10 inches with good heads of clear Forget-me-not-blue flowers. **Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.**

Alpestris, Victoria. A favorite variety with fine heads of clear azure-blue flowers; plants bushy and compact. Makes a fine edging for beds. **Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.**

Alpestris, Mixed. A select mixture of the above. **Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.**

Dissitiflora. Of dwarf, compact habit with sprays of large, exquisite blue flowers, especially adapted for beds of late-flowering tulips, etc. **Pkt. 15 cts., $\frac{1}{4}$ oz. \$2.**

Palustris semperflorens. An ever-blooming variety beginning to flower in May and continuing until autumn. Large, clear blue flowers in pretty sprays. **Pkt. 15c., $\frac{1}{4}$ oz. \$2.** said to be the finest and largest-scented out, producing flowers up to $\frac{1}{2}$ inch in diameter, of true Forget-me-not-blue; plants of strong, vigorous growth, of exceptional value for pot culture and spring bedding. **Pkt. 25 cts., 5 pkts. \$1.**

FOUR O'CLOCK

(Mirabilis)

Well-known, free-flowering plants. Called Four o'Clock because they open their blossoms at that hour in the afternoon; also called Marvel of Peru. Hardy annuals. 2 feet.

Fine Mixed. All colors. **Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.**

GEUM atrosanguineum fl.-pl. Beautiful hardy perennial, bearing profusely large, showy, double, dark crimson flowers all through the summer; an elegant flower for bouquets. **Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.**

GLOXINIA. These very remarkable Gloxinias have, by careful selection, now been so far fixed that 40 per cent of the seedlings come true. The ground-color of the large, erect and widely opened flowers is a velvety purple-crimson, with a rosy white throat. On the often seven-lobed corolla appear more or less sharply defined bands, spots and stripes, characteristic of this new class, the latter mostly of a violet hue. **Pkt. 30 cts.**

GNAPHALIUM leontopodium (Elewis). Seed should be sown early and kept cool and moist. **Pkt. 25 cts.**



FORGET-ME-NOT (MYOSOTIS)

GAILLARDIA

(Blanket Flower)

Brilliant, showy annuals and perennials, used very extensively for beds, borders and cutting purposes. The flowers are daisy-like and are borne on long, stiff stems.

ANNUAL VARIETIES

Amblyodon. Rich blood-red. 2 feet.

Pkt. 10 cts., 5/10 oz. 50 cts.

Aurea. Rich yellow. 2 feet. Pkt. 10c.

Picta Lorenziana. Double; mixed. 2 feet. Pkt. 10 cts., 5/10 oz. 50 cts.

PERENNIAL VARIETIES

Kermesina splendens. Center rich crimson, narrow canary-yellow border. Pkt. 15 cts.

Grandiflora maxima. Pkt. 10 cts.

Sulphurea oculata. Pale sulphur, bright maroon eye. Pkt. 15 cts.

S. & W. Co.'s Hybrids

This strain, of Hybrid Gaillardia has been obtained from a specialist who has developed a splendid type, covering only the best varieties; the flowers are as large as sunflowers. Pkt. 25c., 5 pkts. \$1.



GAILLARDIA LORENZIANA

GODETIA

Profuse-blooming annuals of beautiful colors; fine for bedding or pot culture. Hardy annuals. 1 foot. Pkt. 10 cts., 5/10 oz. 50 cts.

Lady Satin Rose. Brilliant carmine; extra fine. Pkt. 10 cts., 5/10 oz. 50 cts.

Duchess of Albany. Satine white. Pkt. 10 cts., 5/10 oz. 50 cts.

Princess of Wales. Beautiful pink. Pkt. 10 cts., 5/10 oz. 50 cts.

Sunset. Dwarf; compact; most dazzling rosy crimson. Pkt. 10 cts., 5/10 oz. 50 cts.

Carter's Double Pink. Beautiful pot-plant for conservatory decoration. Height 2 ft. Pkt. 15 cts.

Finest Semi-Dwarf Mixed. Pkt. 10 cts.

GOURDS

A vigorous class of plants, with curiously formed and often strangely colored fruits. The foliage is abundant and often curious. Pkt. 10 cts., 5/10 oz. 50 cts.

Mock Orange. \$0 10

Apple-shaped. 10

Dish-Cloth, or Chinese Luffa. 10

Dipper. 10

Heracles' Club. 10

Mixed. All sorts 10

GREVILLEA robusta (Silk Oak). Very graceful foliage; highly valued as a decorative plant for the table, and when large, for tropical effects. 3 to 5 feet. Pkt. 10 cts.

HELENIUM

(Sneezewort)

Hardy perennial; blooms in late summer; useful in the hardy border; very free-blooming.

Autumnale. 6 feet. Yellow. Pkt. 10 cts.

Bigelowii. 5 feet. Golden yellow, black center. Pkt. 25 cts.

Hoopesii. 2 1/2 feet. Dark yellow. Pkt. 15 cts.



GYPHOPHILA ELEGANS GRANDIFLORA, WHITE

GYPHOPHILA

(Baby's Breath)

Pretty, free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut-flowers.

Elegans grandiflora alba. This is an improved, large-flowering, pure white form of the annual Baby's Breath; of free, easy growth, and grown by the acre in the suburbs of Paris and London for use with other cut-flowers. Several sowings should be made during the season to keep up a supply. Pkt. 10 cts., oz. 50 cts.

Elegans grandiflora rosea. Delicate rose. Pkt. 10 cts., oz. 50 cts.

Muralis. An annual sort which forms mounds of green 8 to 10 inches high, thickly studded with little pink flowers from early in the season till frost; fine for edging. Pkt. 10 cts., oz. \$1.

Paniculata. White flowers; fine for bouquets; one of the favorite hardy perennials; blooms first year if sown early. 2 feet. Pkt. 10 cts., oz. \$1.

Paniculata fl.-pl. The new double-flowering Baby's Breath, and one of the finest hardy plants for cutting. Pkt. 20 cts., 3 pkts. 50 cts.

Acutifolia. A strong-growing hardy perennial sort, 3 to 4 feet high, with large panicles of small white flowers in July. Pkt. 10 cts., oz. 50 cts.

Repens. Dwarf; white. A hardy perennial sort for rockwork. Pkt. 10 cts., oz. 50 cts.

HELIANTHUS (Sunflower)

Much-prized annuals and perennials for cutting; the tall sorts are largely used in the perennial border; the dwarf sorts make good edging to the tall.

SINGLE ANNUAL

SUNFLOWERS

The single sorts of Sunflowers are indispensable for cutting. Sown in a sunny location in April or early May, they come to bloom early in the summer and flower continuously until cut down by frost.

Cut-and-Come-Again, Mixed. A mixture of the tall-growing, large-flowering types for cutting. Pkt. 10 cts., oz. \$1.

Cucumerifolius (Miniature Sunflower). Small, single, rich yellow flowers; an abundant bloomer. 4 feet. Pkt. 10 cts., oz. 75 cts.

Cucumerifolius, Stella. Different from the above by its larger and better-formed flowers of purest golden yellow with black center. Pkt. 10 cts., oz. 75 cts.

Cucumerifolius, Orion. A new variety of the Stella. The petals are twisted like a cactus dahlia. Pkt. 10 cts., oz. 75 cts.

Cucumerifolius, Perkeo. A charming dwarf variety of the Miniature Sunflower. The plants form compact bushes about 12 inches high by 14 inches through. There are many positions, such as the front of borders or beds of plants of medium height, where this can be used to good advantage, flowering as it does from the end of June until cut down by hard frost. Pkt. 10 cts., oz. \$1.

Double Annual Sunflowers

- Cucumerifolius fl.-pl.** The double-flowering form of the popular Miniature Sunflower. The flowers, while double, are quite free and graceful; of a bright golden yellow. Pkt. 15 cts., oz. \$1.50.
- Dwarf Double** (Globe of Gold). Dwarf; double; yellow. 4 feet. Pkt. 10 cts., oz. 50 cts.
- Globosus fistulosus** (Globe or Dahlia Sunflower). Flowers large, double and of a rich saffron. 6 feet. Pkt. 10 cts., oz. 50 cts.
- Gigantic Russian.** The large-flowering Russian variety. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., ½lb. 40 cts., lb. 75 cts.

HARDY SUNFLOWERS

- Missouricus.** Fine; double; yellow. Pkt. 10 cts., oz. \$1.
- Rigidus.** Heavy, stiff stems; clear yellow flowers. Pkt. 25 cts.
- Perennial Sorts, Mixed.** A mixture of the best perennial varieties carefully selected. Pkt. 10 cts.
- HELICHRYSUM** (Straw Flower). See **Everlastings**, page 98.

Heliopsis

- Pitcheriana** (Orange Sunflower). Hardy perennial. A valuable plant for the border, thriving in any good soil. Flowers cup-shaped, deep yellow, on long, stiff stems for cutting. 3 to 4 feet. June to October. Pkt. 10 cts., oz. 75 cts.

HELIOTROPE

A half-hardy perennial, flowering during the whole season; its delightful perfume makes it a most desirable bouquet flower; a splendid bedding plant, or can be trained as a greenhouse climber. Seed started indoors in the spring will make fine plants for summer blooming. Can also be sown outdoors in May.

- Lemoine's Giant.** Of robust growth and produces heads of flowers double the size of the old sorts; mixed colors. Pkt. 10 cts., ¼oz. \$1.
- Queen Marguerite.** Large; dark blue. Pkt. 15 cts., ¼oz. \$1.50.
- White Lady.** Largest white. Pkt. 10 cts., ¼oz. \$1.
- Mixed.** All colors of the regular type. Pkt. 10 cts., ¼oz. 75 cts.

Do not fail to grow the **King Asters** listed on page 56 of our Catalogue. For refinement of petalage and profuseness of bloom they are Kings.



SUNFLOWERS

In all our stocks of Flower Seeds great care is exercised to have everything of absolutely first-class quality.

Heuchera

- Sanguinea** (Alum Root). Beautiful hardy perennial. The foliage is evergreen; flowers fiery coral-red shading to brilliant crimson. Pkt. 25 cts., ¼oz. \$1.50.
- Splendens.** Deep red. Pkt. 25 cts., ¼oz. \$1.50.

HIBISCUS (Marshmallow)

- Showy, ornamental plants, for mixed beds or shrubby borders. Hardy perennial, but will bloom first year from seed if sown early. Pkt. \$0 10
- Palustris.** Large pink flowers. \$0 10
- Moscheutos** (Swamp Rose Mallow). Flowers 6 inches in diameter; of light rosy red, with dark center. 10
- Golden Bowl.** Giant yellow, cup-shaped flowers, from 6 to 9 inches in diameter; of rich cream, with velvety maroon center. The plants commence to bloom early and continue until cut down by frost. 10

Honesty (Moonwort)

Hardy biennial, admired for its silvery seed-pouches, which are used for house ornaments; beautiful and curious purple flowers. Sow seed in open in May and protect over winter. 2 feet. Pkt. 10 cts., ¼oz. 50 cts.



HELIOTROPE, LEMOINE'S GIANT

HOLLYHOCKS

One of the most popular of hardy garden plants. The beautiful color effects produced by the planting of these flowers, combined with their dignified and stately appearance, render them indispensable for either the old-fashioned garden or the well-planned herbaceous border. As a background for other flowers or planting among shrubbery, they are without an equal. As the plants are affected with rust occasionally, we recommend frequent spraying in springtime with bordeaux mixture.

CHATER'S SUPERB DOUBLE

By special arrangement, we have secured seed from a grower in England who has, at great expense and effort, grown seed of the famous Chater's Hollyhock on the ground where the original strain was first grown, and we can offer the true strain in the following colors:

Cerise	Crimson	Flesh-color
Lilac	Pink	Primrose
Scarlet	White	Yellow
Mixed		

Pkt. of any of the above colors, 25 cts., 5 pkts. \$1

CHATER'S SUPERB SINGLE

Many prefer the single-flowering Hollyhocks, and we have arranged to procure the same well-known strain in the following single varieties:

Pink	Purple	Primrose
Scarlet	White	Yellow
Mixed		

Pkt. of any of the above colors, 25 cts., 5 pkts. \$1

S. & W. Co.'s Superb Double. This is a selected strain from another grower, which we can offer in a mixture only. The selection has been made, however, with great care. **Mixed, pkt. 10 cts., ½ oz. 50 cts.**

S. & W. Co.'s New Annual Everblooming Hollyhocks

This is one of the best introductions of late years. Seeds sown in the house in March will produce flowers in July on plants 4 feet high. The plants do not attain their perfection until their second year, when they grow 7 to 10 feet high and flower continuously from June till frost. The foliage is distinct and not subject to any disease. The plants are perfectly hardy and will live longer than the old-fashioned kind.

Single Mixed..... Pkt. \$1
Double Mixed..... Pkt. \$1

HUMULUS (Japan Hop)

Rapid summer climber, in three or four weeks' time attaining a height of 20 to 30 feet, resembling the common Hop, but, being an annual, attains full perfection the first season. The foliage is luxuriant, making a dense covering. It is one of the best plants for covering verandas, trellises, etc.

Pkt. ½ oz. 10 cts. ½ oz. 25 cts.
\$10 \$30 \$50 \$75
10 50 75 125



KOCHIA TRICOPHYLLA (see page 81)



CHATER'S SUPERB DOUBLE HOLLYHOCKS

producing grateful shade and being very ornamental. Heat, drought and insects do not trouble it.

Japonicus..... \$10 \$30 \$50 \$75
Variegated. Variegated variety..... 10 50 75 125

HUNNEMANNIA

(Giant Yellow Tulip Poppy, or Bush Eschscholtzia)

Fumarifolia. This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup-yellow, Poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful, feathery, glaucous foliage. Pkt. 10 cts., ½ oz. 60 cts., oz. \$1.

HYACINTH BEAN. See **Dolichos**.

IBERIS (Hardy Candytuft). See **Candytuft**.

ICE PLANT (Mesembryanthemum). Very singular, dwarf, trailing plants, much used for garnishing; beautiful and curious. Tender annual. 1 foot.

Crystallinum. White. Pkt. 10 cts.

IMPATIENS

Sultani. One of the most beautiful of decorative plants. It thrives in stove heat, greenhouse and in open border during the summer. The flowers are of a brilliant rosy scarlet, 1½ inches in diameter. Mixed. Pkt. 10 cts.

Impatiens Holstii. A very handsome plant from East Africa, forming bushes 1½ to 2 feet in height, with brilliant scarlet flowers, which measure from 1¼ to 1½ inches across. It is an elegant pot-plant, also valuable for bedding out in partial shade. Pkt. 25 cts.

INCARVILLEA Delavayi. Hardy perennial. Rather new, originated in northern China, and is one of the prettiest perennials known. It produces divided pale green leaves about 2 feet in length, much like acanthus. The flowers are borne on long, stout stems, tube-shaped, and appear almost like gloxinias. Color bright rose. 2½ feet. June to August. Pkt. 50 cts.

IPOMCEA

Climbers of rapid growth, with beautiful and varied flowers. For covering walls, trellises, arbors or stumps of trees they are invaluable. It is well to soak the seed in warm water over night to assist in germination.

	Pkt.	Oz.
Bona Nox (Evening-Glory). Rosy lilac flowers, expanded in the evening; of very rapid growth.	\$o 10	\$o 75
Grandiflora mexicana alba (Moonflower). At night and during dull days the plants are covered with an abundance of large, pure white, fragrant flowers, 3 to 6 inches in diameter. It grows rapidly and will cover a large surface.	10	75
Hederacea grandiflora superba . Sky-blue, margined white.	10	75
Hederacea grandiflora superba alba . White.	10	75
Leari . Dark blue.	10	1 50
Setosa (Brazilian Morning-Glory). Flowers of pleasing rose-color, borne very freely, in large clusters, from August to frost. As a quick-growing vine it has no equal, covering an enormous space in a short time.	10	50

For other varieties of Ipomceas, see Cypress Vine and Convolvulus

Kochia

(Summer Cypress, or Mexican Firebush)

Trichophylla. A pretty half-hardy annual, 2 to 3 feet in height, which grows into a perfect pyramidal-shaped cypress bush, with small feathery light green foliage, deepening as the season advances until it becomes a lovely crimson hue about Sept. Excellent for edging or hedging. Pkt. 5c., 1/2 oz. 25c.

KENILWORTH IVY (*Linaria Cymbalaria*). Perennial. Violet flowers; of trailing habit. Pkt. 10 cts.

KUDZU VINE. See *Pueraria*.

LANTANA. Rapid-growing plants, forming small bushy shrubs; exceedingly free in bloom. Mixed. Pkt. 10 cts.

LAVENDULA (Sweet Lavender). Pkt. 10 cts., oz. 50 cts.

LAVATERA splendens rosea (Pink Mallow). A very pretty hardy annual of exceptional value. Plants are well formed and grow about 3 feet high, the flowers being large and exceptionally valuable for cutting, as they last quite long. Do well also in large beds or borders and are extremely showy. Pkt. 5 cts., oz. 50 cts.

Arborea variegata. Leaves mottled with yellow; very decorative. Pkt. 5 cts., oz. 25 cts.

Trimestris. Red. Pkt. 5 cts., oz. 50c.

LINUM (Flax)—
Grandiflorum rubrum (Verum). Hardy annual; very large-flowered. Pkt. 10 cts., oz. 75 cts.

Lewisii. Blue. Pkt. 10 cts., oz. 35 cts.

Perenne (Perennial Flax). Blue August-flowering. Pkt. 10 cts., oz. 75c.

Luteum. Bright yellow. Pkt. 10 cts., oz. 75 cts.

LATHYRUS latifolius (Hardy Everlasting Pea). Hardy climbers, growing 6 to 8 feet high when trained on a trellis; the flowers are borne in large clusters. They are peculiarly adapted to rough places, to scramble over rocks and bushes; splendid cut-flower.

White. Pkt. 10 cts.

Delicata. Rosy flesh-color. Pkt. 10c.

Red. Pkt. 10 cts.

Mixed Colors. Pkt. 10 cts.

ANNUAL LARKSPURS

These are among the best-known garden flowers, and in recent years a vast improvement has been effected by careful selection in size and color of the blossoms and the general habit of the plant. Seeds sown in the open ground before the close of April will produce flowering plants by the beginning of July, and give a continuous succession of flowers from then until frost, a record that is not surpassed by any other annual. They make handsome beds or lines, and their free, graceful habit and bright colors are very effective when interspersed in the old-fashioned flower or shrubbery border. They stand well when cut, and a base of one or mixed colors is indeed charming.

DOUBLE STOCK-FLOWERED

This is the finest variety of this very popular annual, with beautiful double flowers. Height 2 1/2 to 3 feet.

Snowstorm . Pure white.	King of the Blues . Dark blue.
Stella . Sky-blue.	Violet Queen . Violet.
Loveliness . Shell-pink.	Lilac Perfection . Lilac.
Attraction . Bright rose.	Tricolor . Variegated.

Pkt. 10 cts., 1/2 oz. 35 cts., oz. 60 cts.
COLLECTION:

One pkt. each of 8 varieties, 50 cts.

Defiance. A decided improvement over the Newport Scarlet. This Larkspur is of the same habit as our Double Stock-flowered; the plants, however, are a trifle taller in growth. Pkt. 25 cts., oz. 1.50.

Tall Stock-flowered, Mixed. A select mixture of our famous Stock-flowered strain. Pkt. 5 cts., oz. 50 cts.

Dwarf Stock-flowered, Mixed. Finest double flowers. Mixed. 1 1/2 to 2 feet. Pkt. 5 cts., oz. 50 cts.

S. & W. Co.'s Emperor

This grand type of Annual Larkspurs grows about 2 feet high and is of candleabra habit. When planted in borders of the flower-garden the plants will prove most effective.

Apple-Blossom	White, Striped
Brilliant Rose	Dark Red
Black-Blue	Rose
Azure-Blue	Tricolor
Violet	Light Blue

Pkt. 10 cts., 1/2 oz. 30 cts., oz. 50 cts.
Collection of the 10 varieties, 75 cts.

Lychnis

Chalcedonica. Usually grown as annuals; of dwarf bushy habit, bearing flowers an inch or more across in continuous succession until frost; the color is a particularly pleasing and effective rich scarlet. The plants grow about 2 feet high.

	Pkt.	Oz.
2 feet high.	\$o 10	\$o 75
Lagasee . Rose; dwarfest; early; charming for pots.	25	
Haageana . Fiery scarlet.	10	75
Scheldii . White.	10	50
Viscaria rosea	10	50
Viscaria splendens	10	50

Giant Double-Flowering Zinnia

(See page 97)

A splendid companion to our Giant Orange and Lemon Marigolds offered on page 83



LARKSPUR, DOUBLE STOCK-FLOWERED

LOBELIA

COMPACTA VARIETIES

Little, round, compact plants, 4 to 6 inches high, forming little mounds of bloom, splendid for edging, beds and ribbon-gardening and fine for pots.

	Pkt.	1/2 oz.
Emperor William. Light blue; compact; very fine...	\$o 10	\$1 00
Fumila splendens. Dark blue, with clear white eye...	10	1 50
Fumila alba. Pure white...	10	1 50
Fumila. Magenta-red, with white eye; distinct and fine...	10	1 50
Crystall Palace compacta. Dark blue; a popular bedder...	10	2 00

ERINUS VARIETIES

They produce trailing branches, 6 to 9 inches long. Indispensable for hanging over vases and baskets, or for garden beds, bearing continuously flowers of charming blue, white or rose shades.

	Pkt.	1/2 oz.
Speciosa. Dark blue; dark foliage; extra fine...	\$o 10	\$1 00
Barnard's Perpetual. Deep blue, with white eye...	10	1 00
Lindleyana. Rose...	10	75
Prima Donna. Velvety maroon...	10	75
Alba. Pure white...	10	50

HARDY VARIETIES

Tall-growing, hardy perennials with long spikes of brilliant flowers; for permanent beds and borders they are unrivaled. They are one of the few flowering plants that thrive in shady situations. 2 to 4 feet. The most brilliant plants in cultivation.

Cardinalis (Cardinal Flower). Long spikes of intense scarlet flowers. Pkt. 25 cts., 1/2 oz. \$3.

Cardinalis Lugdunensis. Rose. Pkt. 50 cts.
Queen Victoria. Brilliant scarlet. Pkt. 50 cts.

MALVA Alcea (Hollyhock Mallow). Pink. Pkt. 10 cts., oz. \$1.

Moschata. Pkt. 10 cts., oz. \$1.
Moschata flore-albo. Pkt. 10 cts., oz. \$1.

MATTHIOLA bicornis (Evening-scented Stock). This old-fashioned annual has no beauty to recommend it, the flowers being a dull purplish lilac, but it is well worth growing for the entrancing fragrance which it emits during the evening. 1 ft. Pkt. 10c., 1/2 oz. 25c.

MATRICARIA

Grandiflora fl.-pl. eximia (Feverfew). Double, pure white flowers are borne on slender stems 15 inches high, which are excellent for cutting. Half-hardy perennial, which should be treated as an annual. Pkt. 10 cts., oz. \$1.

Golden Ball. Compact-growing variety with golden yellow flowers. Excellent for bedding. 1 foot. Pkt. 25 cts., oz. \$2.50.

MUSK PLANT. See *Mimulus*.

MYOSOTIS. See *Forget-me-not*.

MAURANDIA, Finest Mixed. Elegant greenhouse perennial climbers, producing the first season innumerable tube-shaped flowers. Excellent for hanging-baskets and vases. July to October. Pkt. 10 cts., 1/2 oz. 75 cts.

Albiflora. White. Pkt. 25 cts., 1/2 oz. \$2.

Barclayana. Purple. Pkt. 10 cts., 1/2 oz. \$1.

MESEMBRYANTHEMUM crystallinum. See *Ice Plant*.

MONARDA didyma (Bee Balm). July to September. Crimson. Pkt. 25 cts.

LUPINUS (Lupine)

This is a very interesting class of plants and of easy culture, producing beautiful leaves and pea-shaped flowers, and should be more generally cultivated. The following annual varieties may be sown out in the open in May and as plants grow thin out, leaving about 12 inches between the plants.

ANNUAL VARIETIES

Rich Blue **White** **Rose**
Pkt. of any of the above varieties, 10 cts., oz. 50 cts.

S. & W. Co.'s Finest Mixture. A splendid mixture of the Annual Lupines for cutting. Pkt. 10 cts., oz. 40 cts.

PERENNIAL VARIETIES

	Pkt.	Oz.
Polyphyllus, White.	\$o 10	\$o 50
Blue.	10	50
Mixed.	10	40

Lupinus polyphyllus roseus. The plants of this beautiful half-hardy perennial are of robust, branching habit. An excellent subject for the herbaceous border; flowers being produced in long spikes of soft rose-pink. Pkt. 15 cts., 1/2 oz. 35 cts., oz. \$1.

Lupinus polyphyllus, Excelsior. This fine strain of perennial Lupines will be found a grand addition to the hardy perennial section, embracing, as it does, a splendid assortment of colors, ranging from very pale to deep rose, and various shades of lavender, mauve and blues. A really fine mixture. Pkt. 15 cts., 2 pks. 25 cts.

MOONFLOWER. See *Ipomoea*.

MORNING-GLORY. See *Convolvulus*.

MUSA Ensete (Abyssinian Banana Tree). A foliage plant of magnificent proportions; for subtropical massing, or as single specimens it is strikingly effective. Seeds sown early in the house will produce plants 10 to 15 feet high the first season. Pkt. 25 cts.

MIMOSA pudica (Sensitive Plant). A very curious plant. The leaves instantly close up when touched. Tender annual. Pkt. 5 cts.

MIMULUS. The plants of *Mimulus* are beautiful and tender-looking, with almost transparent branches. They luxuriate in damp, shady situations; musk-scented. Tender annual. 1 foot.

Moschata (Musk Plant). Pkt. 10 cts.

Splendid Mixed. Pkt. 10 cts.

MOMORDICA

Balsam Apple and Balsam Pear

Luxuriant annual climbers, with large leaves, making dense shade. The flowers are followed by ornamental, large fruits of orange or copper color, which burst and expose an interior of red, which is highly effective. 15 to 20 feet.

Balsamina (Balsam Apple). Orange fruits. Pkt. 10 cts., oz. 50 cts.

Charantia (Balsam Pear). Coppery scarlet fruits. Pkt. 10 cts., oz. 50 cts.

Our stocks of Dahlias and Gladioli have been selected from the finest varieties in commerce.



LUPINUS POLYPHYLLUS ROSEUS

MARIGOLD

The African and French Marigolds are old favorite free-flowering annuals of easy culture; both are extremely effective. The former have uniformly large, yellow or orange-colored flowers, and are well adapted for large beds or mixed borders, the latter are dwarfer in growth, with beautifully striped flowers, and better suited for bedding purposes and for pot culture; they succeed best in a light soil, with full exposure to the sun. A vase or bowl of any of the rich yellow sorts in combination with a few blue larkspurs or cornflowers is very striking.

TALL AFRICAN MARIGOLD

Few plants have to their credit the mass of glorious color such as is furnished by Marigolds and zinnias in the garden. Their season of bloom during the summer until fall strongly suggests their use. Seed of this type should be sown outdoors in May and transplanted, leaving at least 15 inches each way between the plants, as they are robust growers and can attain their maximum development only if given plenty of growing room.

Giant Show Lemon. This highly meritorious strain of the African Marigold is grown specially for us by a specialist in Europe who selects only the finest blooms and plants of unusually good constitution for seeding purposes. Height 2½ feet. Pkt. 25 cts., 5 pkts. \$1.

Giant Show Orange. The darker form of the preceding variety. Height 2½ feet. Pkt. 25 cts., 5 pkts. \$1.

Double Mixed \$0 10 \$0 50
Orange-Yellow 10 50

Light Yellow. Pkt. 10 cts., ¼ oz. 50 cts.

Orange Quilled. Pkt. 10 cts., ¼ oz. 40 cts.

Lemon Quilled. Deep lemon flowers daintily quilled. Pkt. 10 cts., ¼ oz. 50 cts.

Eldorado. Flowers very large, imbricated and extremely double, colors in all shades of yellow. Pkt. 10 cts., ¼ oz. 40 cts.



MARIGOLD, GIANT SHOW ORANGE

DWARF FRENCH MARIGOLDS

These differ from the Tall African, having small, flat flowers of a somewhat velvety sheen, and grow to a height of 12 to 15 inches. Pkt. ¼ oz.

Legion of Honor. Dwarf, compact, with dark green, fern-like leaves and bright golden, star-like flowers distributed over the surface; the center of each petal is marked broadly with velvety crimson-brown. \$0 10 \$0 60

Little Brownie. Charming, forming compact little bushes only 5 to 6 inches high. It is remarkable for blossoming extremely early and in prodigious abundance, commencing in June. The flowers are vividly colored golden yellow, marked with a large spot of velvety crimson. 10 50

Lutea. Pure yellow; very double. 10 40

Silver King 10 50

Dwarf Mixed 05 40

MIGNONETTE (Reseda)

Well-known, sweet-scented little plants, everywhere at home, either in the greenhouse, garden or sitting-room. Hardy annual.

S. & W. Co.'s Triumph. This Mignonette is one of the choicest varieties for winter flowering. In type similar to Allen's Defiance, except that spikes are more compact and the individual flowers are much larger in size. Seed of this grand variety is grown in our greenhouses, and is saved from the best spikes. Pkt. 50 cts.

Allen's Defiance. This gorgeous Mignonette has qualities heretofore unknown in large-flowering varieties, being deliciously fragrant. When grown under favorable conditions and with proper care, its spikes will be from 12 to 15 inches long. The individual florets are of remarkable size and stand out boldly, forming a graceful as well as compact spike. Its remarkable strength is accompanied by extraordinary keeping qualities; the spikes have been kept in a vase three weeks after cutting, retaining their grace and fragrance until every bud opened. Pkt. 10 cts., ¼ oz. 50 cts.

Improved Large-flowering. Pkt. 10 cts., ¼ oz. 25 cts.

Golden Queen. Yellow-tinted flowers. Pkt. 10 cts., ¼ oz. 25 cts.

Miles' Spiral. Very fine. Pkt. 10 cts., ¼ oz. 25 cts.

Machet. A dwarf French variety, with broad spikes of very fragrant red flowers; one of the best varieties for either garden or pot culture. Pkt. 10 cts., ¼ oz. 50 cts.

Machet, Ruby. A fine new Machet Mignonette, with coppery scarlet flowers. Pkt. 10 cts., ¼ oz. 50 cts.

Odorata maxima, Goliath. Bears very large flowers; the center spikes being often 8 inches long. The plant grows in candelabra form and produces fiery red flowers on firm, upright stalks. Pkt. 10 cts., ¼ oz. 50 cts.



S. & W. CO.'S TRIUMPH MIGNONETTE

Stumpp & Walter Co.'s Superb Nasturtiums

Few garden annuals respond with as little care as the Nasturtium. For ease of culture, duration of bloom, brilliancy of coloring and general excellence, they are unexcelled. All they need is a moderately good soil, in a well-drained, sunny position, and from within a few weeks from the time they are sown until hard frost comes there is an endless profusion of their gorgeous blossoms. The varieties offered below were selected, after exhaustive trials, from a very large number of sorts as being the best and most distinct.

NEW GIANT-FLOWERING

We have arranged with a grower, who has made growing Nasturtiums a specialty, to grow this Giant-flowering strain for us. The plants are strong and vigorous, with very large, bright green leaves, measuring from 5 to 8 inches across. The flowers, which are very numerous, measure 3 inches in diameter, and are borne on long stems well above the foliage. They are produced in great numbers and have a most striking effect. Their fine color, long stems, great size and esthetic form make them valuable for cutting. We can offer it only in selected mixtures of both the Dwarf Bedding and the Tall Climbing kinds.

Giant Tall, Mixed. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.

Giant Dwarf, Mixed. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.

TOM THUMB DWARF OR BEDDING

Aurora. Salmon-rose.

Beauty. Light scarlet, mottled yellow.

Brilliant. Rich scarlet.

Chameleon. Various colors on one plant.

Crystal Palace Gem. Sulphur, maroon-blotches.

Empress of India. Brilliant crimson; dark foliage.

King Theodore. Deep crimson-maroon; dark foliage.

King of Tom Thumbs. Dark scarlet; dark foliage.

Lady Bird. Orange-yellow, spotted red.

Luteum. Pure, light yellow.

Pearl. Pure white.

Ruby King. Light ruby-red.

Price of any of the above named Dwarf sorts, pkt. 5 cts., oz. 20 cts., ¼ lb. 60 cts.

Special Collections: 1 pkt. each of 6 of these varieties, 25 cts. 1 pkt. each of 12 of these varieties, 50 cts.

Dwarf, Mixed. A mixture of above-named sorts. Pkt. 5 cts., oz. 15 cts., ¼ lb. 50 cts.

Dwarf, Ivy-leaved. Beautiful, dark green, ivy-like foliage, composing into an effective setting for the lovely flowers of various colors. **Mixed Colors.** Pkt. 10 cts., oz. 20 cts., ¼ lb. 75 cts.

Dwarf, Variegated-leaved. These comparatively new varieties are equally thrifty and robust in growth and produce freely as beautiful flowers in various colors as the plain green-leaved Nasturtiums, with the added merit of ornamental foliage, which renders them beautiful objects even out of flower. We offer in a mixture of best colors. Pkt. 10c., oz. 20c., ¼ lb. 75 cts.

TALL OR CLIMBING VARIETIES

Elegant and luxuriant climbers for verandas, trellises, etc. May be used to cover unsightly railings and to trail over rough ground with fine effect. The seed-pods can be gathered while green and tender for pickling; 6 to 10 feet.

Chameleon. Differently rich-colored flowers on the same plant. **Crimson.** Rich and velvety.

Dunnett's Orange. Rich golden orange, garnet blotches.

King Theodore. Deep crimson-maroon, dark foliage.

Pearl. Creamy white.

Prince Henry. Cream, spotted and tipped scarlet.

Rose. A lovely shade of ruby-rose.

Scarlet. Glowing vermillion.

Yellow. Pure yellow. Pkt. 5 cts., oz. 20 cts., ¼ lb. 60 cts.

Tall Mixed. A mixture of the above-named sorts. Pkt. 5 cts., oz. 15 cts., ¼ lb. 50 cts.

Jupiter. Magnificent flowers of a brilliant golden yellow. Pkt. 10 cts., oz. 20 cts., ¼ lb. 75 cts.

Moonlight. Immense, creamy white flowers. Pkt. 10 cts., oz. 20 cts., ¼ lb. 75 cts.

Sunlight. Pure, rich butter-yellow; frequently measuring 3 inches across. Pkt. 10 cts., oz. 20 cts., ¼ lb. 75 cts.

Special Collections: 1 pkt. each of 6 named varieties, 25 cts. 1 pkt. each of 12 named varieties, 50 cts.

Tall, Ivy-leaved. Similar in type to the Dwarf Ivy-leaved in Tall varieties. **Mixed Colors.** Pkt. 10 cts., oz. 20 cts., ¼ lb. 75 cts.

Tall, Variegated-leaved. Similar in type to the Dwarf Variegated-leaved in Tall-growing sorts. **Mixed Colors.** Pkt. 10 cts., oz. 20 cts., ¼ lb. 75 cts.



S. & W. Co.'s
Giant-flowering
Nasturtiums

PHLOX DRUMMONDII (Hardy Annual)

The *Phlox Drummondii* is one of our best annuals, flowering freely all the summer. For richness of color they cannot be surpassed. They are invaluable for beds and ribbon-gardening, therefore no garden should be without them. They should be sown outdoors in May, in a situation well open to the sun, and they will flower and be a mass of color in July and continue until late autumn. Seeds may be sown in a hotbed in March and flowers be had in June.

Large-Flowering Tall Varieties

This is the finest type, having the largest heads of bloom as well as the largest individual flowers; of strong, sturdy growth, attaining a height of about 15 inches.

	Pkt.	1/2oz.
Brilliant. Finest crimson.....	\$0 10	\$0 75
Carmine. Carmine with white eye.....	10	75
Chamois-Rose. Shell-pink.....	15	1 00
Isabelliana. Tea-rose-yellow.....	15	1 00
Kermesina. Scarlet-striped.....	10	75
Leopoldii. Rose with white eye.....	15	1 00
Purple. Deep purple.....	10	75
Purple King. Purple, white eye.....	10	75
Rosea. Enchantress-pink.....	10	75
Scarlet. Rich scarlet.....	10	75
Splendens. Deep crimson, white eye.....	10	75
White. Pure white.....	10	75
Finest Tall Mixed	10	00

Imported Collection. 1 pkt. each of 6 varieties.....\$0 50
1 pkt. each of 12 varieties.....1 00

Large-Flowering Dwarf Varieties

This type resemble the tall sorts offered in size of blooms but the plants are dwarfer in habit.

	Pkt.	1/2oz.
Chamois-Rose. Shell-pink.....	\$0 10	\$1 25
Defiance. Brilliant crimson.....	10	1 25
Fireball. Scarlet.....	10	1 25
Purple. Deep purple.....	10	1 25
Snowball. Pure white.....	10	1 25
Surprise. Vermilion, white center.....	10	1 25
Finest Dwarf Mixed	10	1 00

IMPORTED COLLECTION: 1 pkt. each of 6 varieties, 50 cts.

Star of Quedlinburg. Of dwarf habit; very pretty, star-shaped flowers; a novel variety; mixed colors. Pkt. 10 cts., 1/2oz. 35 cts.

HARDY PHLOX

Magnificent, hardy, flowering plants, growing into strong bushes from 2 to 3 feet high, bearing immense heads of large, waxy flowers of lovely shades of color.

	Pkt.	1/2oz.
Large-Flowering Hybrids, Tall Mixed	\$0 10	
Large-Flowering Hybrids, Dwarf Mixed	10	
Large-flowering, Red Shades Mixed	25	

NICOTIANA

Affinis. An annual with sweet-scented, pure white, star-shaped flowers, 3 inches across, blooming continually. 2 to 3 feet high. Pkt. 10 cts., 1/2oz. 25 cts.

Giant Red-flowered. Magnificent annual of tropical effect, large, luxuriant leaves and immense clusters of rich crimson flowers. 5 feet. Pkt. 10 cts.

Sandera Hybrids. A splendid new type in a great variety of colors. Pkt. 10 cts., 1/2oz. 50 cts.

NEMOPHILA. Splendid annuals for garden decoration; bright-colored flowers, in shades of blue, white and violet. 1 foot.

Finest Mixed. Pkt. 10 cts.

NIGELLA

Damascena, Double Mixed (Love-in-a-Mist). Pretty garden annuals with feathery green foliage, in which large, double, charming blue or white flowers are set. Pkt. 1/2oz. 1 to 2 feet high.....\$0 10 \$0 30

Miss Jekyll. A lovely variety with cornflower-blue blossoms; splendid for cutting. Hardy annual, growing about 2 feet high.....10 50

GENOTHERA Fraseri (Evening Primrose). Hardy perennial border plants of value. Beautiful yellow flowers. July to October. 1 1/2 feet.....25 1 50

Lamarckiana. Hardy perennial. Enormous yellow flowers. July to October. 3 feet.....10 30

OXALIS. Pretty, little, half-trailing annuals, for hanging-baskets, vases, rockwork, and edgings, flowering in profusion. 6 to 9 inches. Pkt. 10 cts.

Floribunda alba. Fine for edgings.....\$0 15

Floribunda rosea. Fine for edgings.....15

Finest Mixed.....10

PEPPER, Celestial. Finest strain. One of the decorative plants largely used for Christmas. Pkt. 25 cts.

PHYSOSTEGIA

virginica (False Dragon Head). One of the prettiest hardy perennials, forming dense bushes, 3 to 4 feet high, and bearing freely during the summer months spikes of delicate lilac tubular flowers not unlike a gigantic heather. Pkt. 10c.



STUMPP & WALTER CO.'S GIANT PANSIES

This very popular annual needs little description. Good results may be obtained from sowing seed in April in a light, cool, but well-moistened soil, enriched with a slight amount of barnyard manure or fine ground bone. Sow seed in drills, covering them five times their diameter, and firm soil. Water once a day, except in very dry weather, when they may be watered twice a day. Seed will germinate in about two weeks and should not be allowed to dry out. A small covering of newspapers will prevent drying out. When plants are large enough to handle, transplant to a distance of 1 foot apart. Where greenhouse and coldframe facilities are at hand, sow in July or August and protect plants during winter.



S. & W. CO.'S GIANT PANSIES

Pansies in Mixture

Our Pansy Mixtures are prepared in our Flower Seed Department by an expert who has a thorough knowledge of the finest sorts extant, and is done in a very careful manner. Our Pansies have been grown throughout the United States, by leading florists, many of whom have repeated their order every year, thereby giving their unqualified indorsement to our famous strain.

S. & W. Co.'s Exhibition Strain.

This mixture of Giant Pansies has been prepared of the finest varieties grown; blooms of gigantic size, splendid texture; the plants of robust constitution hold their majestic blooms well above the foliage. Every conceivable color and combination of colors has been included. Pkt. 25 cts., $\frac{1}{4}$ oz. \$3, oz. \$10.

Non Plus Ultra. A mixture of Pansies designed for the critical buyer who desires his beds to look of uniform quality, giving every conceivable color and combination of colors that exists in this highly meritorious flower. Pkt. 20 cts., $\frac{1}{4}$ oz. \$2, oz. \$7.50.

Masterpiece (Fried Pansy). A remarkable type, each petal being conspicuously curled or waved. The color range is quite extensive, the rich, dark, velvety shades predominating. Pkt. 25 cts., $\frac{1}{4}$ oz. \$2, oz. \$7.50.

Cassier's Giant. A grand mixture of the finest blotched varieties; very large in size and rich in coloring. Pkt. 20 cts., $\frac{1}{4}$ oz. \$2, oz. \$7.50.

Mme. Perret. A new and beautiful strain, originated with a French specialist; flowers of large size, borne very freely in a great diversity of colors, especially rich in red and wine shades. Pkt. 20 cts., $\frac{1}{4}$ oz. \$2, oz. \$7.50.

S. & W. Co.'s Special Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.50.

Finest English Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

Giant Pansies in Separate Colors

	Pkt.	$\frac{1}{4}$ oz.	Oz.		Pkt.	$\frac{1}{4}$ oz.	Oz.
Giant Adonis. Soft lavender-blue.....	\$0 15	\$1 50	\$5 00	Giant Lord Beaconsfield. Violet-blue...	\$0 15	\$1 50	\$5 00
Giant Azure-Blue.....	15	1 50	5 00	Giant Purple.....	15	1 50	5 00
Giant Dark Blue.....	15	1 50	5 00	Giant Snow-White.....	15	1 25	4 00
Giant Fire King. Mahogany and gold...	15	1 25	4 00	Giant White. Dark eye.....	15	1 50	5 00
Giant King of the Blacks. Black...	15	1 50	5 00	Giant Pure Golden Yellow.....	15	1 50	5 00
				Giant Yellow. Dark eye.....	15	1 50	5 00

PETUNIA

The Petunia cannot be equaled by any plant for outdoor decoration. They will flower the first season, even if sown in the open ground but usually not before June. These sown in the house or hotbed in April will bloom in June and be larger and finer plants. Half-hardy annual.

S. & W. Co.'s Giant-flowering Petunias. The demand for a mixture comprising the best representative types of single-flowering Petunias has been so significant that we have by careful selection and elimination prepared a special mixture. Where a mixture of the giant single fringed and plain-edged varieties are desired, as well as an assortment of the various colors and shades, our customers will find them for **bedding purposes the finest procurable.** Pkt. 25 cts., 5 pkts. \$1.

GIANT-FLOWERING FRINGED PETUNIAS

SINGLE VARIETIES

Under this heading we have listed the finest possible varieties of the now popular large-flowering Fringed Petunias. Whether desired for bedding, cutting or general display, the varieties listed are the best by test of the Fimbriata, or fringed large-flowering class.

Single Fringed White. Pure glistening white.....	Pkt. 25
" Yellow. Canary-yellow.....	25
" Rose. Brilliant rose.....	25
" Crimson. Dazzling crimson.....	25

Single Fringed Mixed. A mixture of best fringed varieties including with the above many new colors and shades. Should be grown by everyone desiring the best. Pkt. 25 cts.

DOUBLE VARIETIES

It has been a well-established fact that seed saved from the most carefully hybridized flowers produces a small percentage of double-flowered plants. It is important to save the weaker seedlings, as these invariably produce the finest double flowers.

Double Fringed White.....	Pkt. 50
" Rose.....	50
" Crimson.....	50

Double Fringed Mixed. A superb mixture of the finest double-fringed varieties, every shade and color represented. Splendid for borders or beds, keeping up a succession of bloom throughout the summer.....

50

SINGLE BEDDING VARIETIES

Crimson. Beautiful and effective, compact variety; flowers brilliant crimson.....

Pkt. 15

Rosy Morn. Soft carmine-pink, white center; used very extensively for borders, beds or rockeries.....

15

Snowball. An excellent, compact variety, producing pure satiny white flowers throughout the entire season; very dwarf.....

15

Howard's Star. Rich crimson with distinct white star in the center.....

15

Countess of Ellesmere. Dark rose with fine white throat.....

10

Inimitable compacta. Bushy little plants covered with pretty striped and star-shaped flowers.....

10

Special Bedding, Mixed. Select, bright colors.....

10



S. & W. CO.'S GIANT-FLOWERING PETUNIAS

PENTSTEMON (Beard Tongue)

Highly useful and attractive hardy perennial, and much used in the hardy border.

S. & W. Co.'s Giant-flowered Hybrids, Mixed.

This is a mixture of the finest giant-flowered varieties and a very excellent assortment of colors. **Pkt. 25 cts.**

Sensation. As a bedding plant this takes rank with the petunia, phlox, etc. It grows about 2 feet high, every branch being a spike of large, gloxinia-like flowers in a very wide range of bright colors, including rose, red, carmine, cherry, pink, lilac, purple, etc. Not quite hardy, and best treated like petunias, verbenas, salvia, etc. **Pkt. 15 cts., 2 pkts. 25 cts.**

Digitalis (Foxglove Pentstemon). Spikes of white flowers, with purple throat, during July and August. **Pkt. 10 cts.**

Pubescens. Spikes of bright rosy purple flowers in July and August; 1½ feet. **Pkt. 10 cts.**

Mixed. Good assortment of colors. **Pkt. 10 cts.**

PHYSALIS Franchetii (Chinese Lantern Plant). An ornamental variety of the Winter Cherry, forming dense bushes about 2 feet high, producing bright orange-scarlet lantern-like fruits. Hardy perennial; flowers in fall. **Pkt. 25 cts.**

PUERARIA THUNBERGIANA

(Japanese Kudzu Vine)

To this must be awarded first place as the fastest-growing hardy climbing plant. It will grow 8 to 10 feet the first year from seed, and after it has become established there seems to be no limit to its growth, 50 feet in a single season being not unusual. Its foliage is large and covers well; it bears small racemes of rosy purple, pea-shaped blossoms toward the close of August. A splendid subject for permanently covering verandas, dead trees, etc. **Pkt. 10 cts., ¼oz. 30 cts.**

PASSION FLOWER. Handsome, rapid-growing perennial climber for greenhouse decoration or sunny positions in the open ground in summer. **Pkt.**

Cerulea. Large flowers of violet and blue.....	\$o 10
Alba. Large, white flowers.....	10
Incarnata. Flesh-colored.....	10
COLLECTION. One packet of each.....	\$o 25



SHIRLEY POPPIES

PORTULACA Hardy Annual

SINGLE GRANDIFLORA

	Pkt.	¼oz.
Alba. Pure white.....	\$o 10	\$o 50
Aurea. Deep golden yellow.....	10	50
Rosea. Beautiful rose.....	10	50
Splendens. Crimson.....	10	50
Finest Mixed	o5	40

DOUBLE GRANDIFLORA

Alba. White.....	10	1 50
Rosea. Rose.....	10	1 50
Salmona. Salmon.....	10	1 50
Splendens. Crimson.....	10	1 50
Sulphurea. Yellow.....	10	1 50
Finest Mixed	10	1 25

POLEMONIUM (Jacob's Ladder). Hardy perennial, with clusters of blue-and-white flowers. Foliage deeply cut and ornamental. 2 feet. May to August. **Pkt. Oz.**

Ceruleum grandiflorum. Deep blue.....	\$o 10	\$o 75
Ceruleum album. Pure white.....	10	75
Richardsonii. Sky-blue.....	10	1 00

PLATYCODON. See *Wahlenbergia*.

POPPIES

There is probably no flower of greater popularity than the Poppy, particularly the annual varieties.

Single Hardy Annual Poppies

	Pkt.	Oz.
Shirley, Carmine Shades	\$o 10	\$1 00
" Rose Shades	10	1 00
" Salmon Shades	10	1 00
" White Shades	10	1 00
" Finest Mixed	10	75

Admiral. A single peony-flowered variety of surpassing beauty, having large, smooth-edged flowers of glistening white, with a broad band of brilliant scarlet around the top. Excellent for grouping. **10 1 00**

Danebrog. Large flowers of brilliant scarlet, with a silvery white spot on each petal.....	10	50
Glaucum (Tulip Poppy).....	10	50
English Scarlet. Very attractive.....	10	60

Double Hardy Annual Varieties

	Pkt.	Oz.
American Flag. White flowers, margined orange-scarlet.....	\$o 10	\$o 40
White Swan. Immense flowers, beautifully fringed.....	10	40
Peony-flowered. Mixed.....	10	40
Ranunculus, or French, Mixed	10	35

Hardy Perennial Varieties

Too much cannot be said of this class of Poppies, as for general effectiveness and brilliancy of display they are unequalled.

Bracteatum, Scarlet. Immense orange-scarlet flowers, very similar to the Oriental variety.....	\$o 10	\$1 00
Iceland (Nudicaule) Scarlet	10	1 00
" White	10	1 00
" Yellow	10	1 00
" Mixed	10	75
" Double Mixed	10	75
Orientele, Rose. 3 feet.....	10	1 50
" Brilliant Scarlet. 3 feet.....	10	1 50
" Little Prince. 1½ feet.....	10	
" Prince of Orange. 3 feet.....	10	
" Finest Mixed	10	

SOW ANNUAL POPPIES EARLY IN SPRING WHERE INTENDED TO BLOOM

PRIMULA (Primrose)

The charming and beautiful Chinese Fringed Primroses and Obconica varieties are among the most important winter-blooming pot-plants. The seed we offer is of the highest merit, and has, as usual, been saved from the best strains of English and Continental growth. Florists and others report that they have never seen finer flowers than those produced from our seed. Seed sown in April will bloom during early winter; August for spring blooming. Sow in shallow pans, in soil consisting of part sand and leaf-mold worked through a fine sieve and allow for good drainage. Cover seeds lightly and water frequently; give a temperature of about 65 degrees.

Primula sinensis (Chinese Primrose)

This beautiful Chinese Fringed Primrose is indispensable for spring decoration in the home or conservatory, and ranks as one of the finest of all winter-blooming pot-plants grown by the florist or the home gardener. Our Giant Fringed strain is of the highest merit and is carefully selected.

Giant magnifica, Blue Giant Ruby Queen Giant White, Fern-leaved
Giant Crimson Giant Salmon Giant Mixed
Giant Rose Queen

Pkt. 75 cts.; collection of 6 pkts. for \$4.25

Giant Double, White Giant Double, Rosy Pink
Giant Double, Scarlet Giant Double, Salmon-Pink
Giant Double, Blue Giant Double, Mixed

Pkt. 75 cts.; collection of 6 pkts. for \$4.25

Primula stellata

A very pretty form, with large heads of star-shaped flowers of various colors; a splendid type for decorative purposes.

Giant White Star Giant Crimson Star Giant Rosy Star
Giant Salmon-Pink Giant Blue Star Giant Mixed

Pkt. 75 cts.; collection of 6 pkts. for \$4.25

Primula obconica gigantea

This type of Primula outlives the old Obconica type, the flowers being considerably larger, often measuring 1½ inches in diameter.

Obconica gigantea Kermesina. Rich crimson.....	Pkt.	\$o 25
" " rosea. Rose.....	25	
" " alba.....	25	
" " lilacina. Beautiful lilac.....	25	
" " Mixed. A mixture containing pure white to crimson.....	25	

FOUR FINE GREENHOUSE PRIMULAS

Malacoides (The Giant Baby Primrose). The flowers measure ½ to ¾ inch across, and the plants branch very freely. The flowers, of a pretty light lilac, are borne in whorls on stems which are graceful and strong. If grown in a greenhouse, can be had in bloom in four or five months after sowing. A most delightful plant for table decoration. Pkt. 25 cts., 5 pkts. \$1.



S. & W. CO.'S SINGLE PYRETHRUM



S. & W. CO.'S PRIMULA SINENSIS

HARDY PRIMROSES

These are among the best of the early spring-blooming plants. With a slight protection they will stand the winter, but will do better if protected by a coldframe.

Auricula. A well-known favorite of great beauty; seed saved from splendid choice mixed varieties. 6 inches.....	Pkt.	\$o 15
Japonica (Japanese Primrose). Bright and showy flowers, borne in whorls on stems 6 to 9 inches long. Mixed.....	10	
Vulgaris (English Primrose). Canary-yellow; fragrant. ¾ oz. soc.	10	

Malacoides alba. This beautiful new variety is a welcome addition to this type of Primula. All those who have grown Malacoides have been pleased, making the white variety a strong favorite. Makes a charming combination with the lilac form. Pkt. 25 cts., 5 pkts. \$1.

Forbesii (The Baby Primrose). Quite the freest-flowering Primula we know of. The plants throw up tiny flower-stalks when only a few weeks old, but we advise pinching them off and the plants kept growing until October. They may then be allowed to flower, which continues until late in the spring in greatest profusion. Pkt. 25 cts., 5 pkts. \$1.

Kewensis. This new variety is most attractive, with pleasing, bright yellow flowers borne on long stems. It is delightfully fragrant and stands well as a house plant. Pkt. 25 cts., 5 pkts. \$1.

PYRETHRUM

The first-named variety is the well-known Golden Feather so much used for edging, carpet-bedding, etc., while the others are most attractive hardy plants, with daisy-like flowers that are perfect gems for cutting. No hardy border should be without these charming plants, as their flowers make delightful subjects for home decoration.

Aureum (Golden Feather). Half-hardy perennial, grown as an annual. Valuable for edging, as the foliage makes a fine contrast with other bedding plants. Pkt. 20 cts., oz. 50 cts.

S. & W. Co.'s Single Hybrids. Our strain of this beautiful hardy perennial has been grown specially in England for us by a specialist in this flower. The cosmos-like flowers range in color from the palest pinks to deep red, the bright yellow centers forming a splendid contrast. Blooming as they do during May and June and again in the fall, and on account of their long-lasting and utility as a cut-flower, we recommend them highly to our patrons. Pkt. 25 cts., 5 pkts. \$1.

S. & W. Co.'s Double Hybrids. Colors and character of plants similar to the above, except that centers are tufted, somewhat resembling a double China aster. Pkt. 25 cts., 5 pkts. \$1.

SALPIGLOSSIS (Painted Tongue)

Few annual flowers contribute such a wealth of bloom from summer until cut down by frost. It is only of recent years that American gardeners have become better acquainted with this delightful annual. As a cut-flower it has become highly prized. The funnel-shaped flowers, facing upward, revealing their exquisite markings of either gold or silver veins running through the groundwork of the flowers, and their orchid-like appearance, make them instant favorites.

For best results sow seed in a hotbed or sunny window, and when all danger of frost is past, place in the garden, allowing 8 inches between the plants.

Salpiglossis superbissima

(Orchid-Flowering)

This orchid-flowering strain branches freely from the main stem, forming fine, spreading plants, flowering freely from all branches, making it invaluable for cutting.

	Pkt.	1/2oz.	1oz.
Purplish Violet	50	10	\$1 00
Pink. Bright pink	10	10	1 00
Light Blue. Veined gold	10	10	1 00
Golden Yellow. Rich color	10	10	1 00
Scarlet. Rich color	10	10	1 00
Brown with Gold	10	10	1 00
Finest Mixed	10	10	75

COLLECTION: One packet each of 6 separate varieties, 50 cts.

Emperor. This variety forms only one leading stem, and bears at its summit a veritable bouquet of flowers in a mixture of colors, covering shades of scarlet, pink, yellow and violet. Grows about 2 feet high, and is largely used for mass effect in the garden. Pkt. 10c., 1/2oz. 75 cts.



SALPIGLOSSIS SUPERBISSIMA (Orchid-flowering)

SALVIA

One of our most handsome summer- and autumn-flowering plants, growing into compact bushes about 3 feet high and literally ablaze with brilliant flowers; very effective for massing on the lawn and for garden decorations. Half-hardy perennial.

Splendens (Scarlet Sage). Beautiful bright scarlet; 3 feet. Pkt. 10 cts., 1/2oz. 60 cts.

Bonfire (*Salvia splendens nana compacta erecta*). This variety, without question, is the finest Salvia for bedding yet introduced. The plants grow into very compact oval bushes, about 2 1/2 feet high and produce long spikes of brilliant scarlet flowers. They stand out stiff and erect; over 200 spikes to a plant is not unusual, and the spikes bear from twenty to thirty flowers each. Gorgeous effects can be produced with the Bonfire Salvia massed on the lawn or in the garden, or planted in rows along a sunny drive, where the brilliant scarlet is simply dazzling. Pkt. 10 cts., 1/2oz. \$1.50, 1/2oz. \$2.50, oz. \$5.

Scarlet Dragon. This variety is an improvement on the old Splendens type, the flowers being nearly double the size, closely crowding the immense spikes that often measure 6 inches across. It forms compact bushes, 3 feet through by 3 feet high. Pkt. 10 cts., 1/2oz. \$1.25.

Zurich. A splendid dwarf variety, growing about 2 feet high, and is especially valuable on account of being the earliest to bloom, flowering ten days in advance of any other sort. Pkt. 20 cts., 1/2oz. \$1.50.

Patens (Blue Sage). In color this is as blue as the "Scarlet Sage" is red; unlike the latter, however, it is not useful for bedding, but is a beautiful plant for the border or greenhouse; tender perennials. 2 feet. Pkt. 25 cts.

Azure grandiflora. A hardy perennial variety, producing during August and September spikes of pretty sky-blue flowers in great profusion. 2 to 3 feet. Pkt. 10 cts.

Farinacea. A perennial variety, but best grown as an annual. Seeds sown in the open ground in May bloom from July to frost. The fine light blue flowers are borne on long spikes held above the foliage; makes a good blue line. 2 feet. Pkt. 15 cts.

Rehmannia

Angulata. Greenhouse herbaceous perennial from central China, erect habit; 2 to 3 feet in height; flowers 3 inches in diameter, rosy purple with yellow throat, spotted with deep purple; of easy culture; blooms nine months from time of sowing seed. Pkt. 25 cts.



SALVIA SPLENDENS (Scarlet Sage)



SCABIOSA, IMPROVED LARGE-FLOWERING

SCABIOSA

Mourning Bride; Pin-Cushion Flower,
Sweet Scabious

These beautiful hardy annuals are in great demand. They grow about 2½ feet high and bloom from early in July without interruption until cut down by the frost. As a flower for cutting they are much in demand. The various shades are very charming, but are equally well adapted for borders or beds, where they display themselves very effectively. Seeds should be sown any time in the spring after danger of frost is past.

IMPROVED DOUBLE LARGE-FLOWERING

	Pkt.	Oz.
Azure Fairy. Lavender-blue.....	\$o 10	\$1 00
Fiery Scarlet. Dazzling color.....	10	1 00
Flesh-color. Light pink.....	10	1 00
Cherry-Red. Rich red.....	10	1 00
King of the Blacks. Purplish black.....	10	1 00
White. Pure white.....	10	1 00
Tall Double-flowering, Mixed.....	10	75
Dwarf Double-flowering, Mixed.....	10	75

COLLECTION. One packet each of 6 separate varieties, 50c.

HARDY PERENNIAL VARIETIES

Caucasica (Blue Bonnet). One of the handsomest of hardy perennials, especially valuable for cutting, the blooms lasting a long time in water; lilac-blue. 3 feet. Pkt. 10 cts.

Caucasica alba. Pure white. 3 feet. Pkt. 10 cts.

Japonica. A hardy perennial variety from Japan, forming bushy plants 2½ feet in height by the same through, and bearing on long, wiry stems beautiful, artistic, lavender-blue flowers, extremely floriferous, producing a continuous crop all summer. A fine cut-flower. Pkt. 15 cts.

SCHIZANTHUS (Butterfly or Fringe Flower)

These dainty annual plants are of easy culture in any good garden soil. The dwarf sorts are frequently used for edging borders or beds. For outdoor blooming, sow seed in May where

they need it. A cool temperature seems to suit the plants best, and they will grow vigorously. Seeds germinate quickly and flower with ordinary care. They are also useful as pot-plants for spring flowering, the seed being sown in early fall and the plants kept in a light house and given plenty of room as they need it. A cool temperature seems to suit the plants best, and they will grow vigorously.



SCHIZANTHUS WISETONENSIS

Dwarf Hybridus grandiflorus. New. A very popular strain of this well-known showy annual; plants grow 12 inches in height, of compact and pyramidal habit, with a great range of colors, bright and handsome. Splendid for border planting. Pkt. 25 cts.

Wisetonensis. A variety largely used as a pot-plant for the house or conservatory. It is remarkably free-flowering, and presents a beautiful appearance, with its myriads of blooms, the ground-color of which is white, dotted with delicate rose. Selected Strain (Greenhouse-grown), pkt. 50 cts., 3 pkts. \$1.25.

Mixed. A splendid mixture of the regular type. Pkt. 10 cts.

SENSITIVE PLANT. See Mimosa.

SILENE (Catchfly). Bright-colored, free-flowering annuals, suitable for rockwork or open borders. The variety *Pendulata* is largely used for spring borders or beds.

Armeria. Separate colors—Red, White or Pink. Pkt. 10 cts.

Pendulata. Separate colors—Pink or White. Pkt. 10 cts.

Pendulata, Double. Mixed colors. Pkt. 10 cts.

SHAMROCK, Small-leaved. Pkt. 50 cts.

SMILAX (*Myrsiphyllum asparagoides*). In many respects the Smilax is the most useful, and it is certainly one of the most graceful climbers which adorn the greenhouse or conservatory; for bouquets and floral decorations it is indispensable. The hard seeds need soaking over night before planting; also bottom heat to sprout them. Pkt. 10 cts., ¼oz. 25 cts.

Giant Waved or Spencer Sweet Peas

The Spencer Waved Sweet Pea is a distinct advance in the development of the Sweet Pea. No modern garden is complete without this grand type. The chief characteristic of the Spencer Sweet Peas is their robust growth, plants frequently attaining a height of 6 to 10 feet, requiring a foot of space in the row for each plant to fully develop. The flowers are gracefully formed; both standard and wings are larger than in the Grandiflora type, flowers often measure 2 to 2½ inches in diameter and are borne on stems 18 inches long, with four blooms.

In order to make it less difficult for the amateur or professional gardener to choose varieties according to color and shades, we have prepared color classifications of all Spencer Sweet Peas which we catalogue.

AGRICOLA. Pleasing shade of bluish-pink, suffused rosy lilac.

Special strain. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.
ASTA OHN. Soft pinkish lavender. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

AURORA SPENCER. White ground, striped and flaked orange-pink. Pkt. 10 cts., oz. 40 cts., ¼lb. \$1.50.

BARBARA. Salmon-colored; quite uniform. Special strain. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

BLANCHE FERRY SPENCER. Standards rose, wings white. Pkt. 10 cts., oz. 40 cts., ¼lb. \$1.50.

BLUE PICOTÉE. White ground edged pale blue. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

CAPTAIN OF THE BLUES SPENCER. Pure purple, margin of petals marbled. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

CHARLES FOSTER. Pastel shade; general effect of flower mauve-pink. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

CHERUB. Deep creamy buff edged bright rose. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

CONSTANCE HINTON. The best black-seeded white Spencer. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

COUNTESS SPENCER. Bright shade of pink. Pkt. 15 cts., oz. 40 cts., ¼lb. \$1.50.



CAPTAIN OF THE BLUES SPENCER SWEET PEAS

DAINTY SPENCER. White ground, beautiful picotée edge of rose-pink. Pkt. 10 cts., oz. 40 cts., ¼lb. \$1.50.

DECORATOR. The general tone is a deep cerise. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

DOBBIE'S CREAM. Deep cream; a grand variety. Special strain. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

ELFRIDA PEARSON. Giant size; pale pink on white ground. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

ETTA DYKE. A splendid white variety. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

FIERY CROSS. A very striking bright shade of orange-scarlet. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

FLORENCE MORSE SPENCER. Standard richly flushed pink, wings soft bluish. Pkt. 10 cts., oz. 40 cts., ¼lb. \$1.50.

FLORENCE NIGHTINGALE. Rich lavender, soft pink sheen. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

GEORGE HERBERT. Rose-crimson, suffused with magenta. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

HELEN LEWIS. Fine orange-salmon-pink. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

HERCULES. Might well be described as a giant or larger Countess. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

KING EDWARD SPENCER. A pure red Spencer. Special strain. Pkt. 10 cts., oz. 40 cts., ¼lb. \$1.50.

KING WHITE. The finest white for exhibition. Special strain. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

LOYALTY. Ground-color white, striped and flaked blue. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

MARGARET ATLEE. Warm salmon-pink, suffused over a cream ground; exquisite. Special strain. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

MARGARET MADISON. A self-colored clear azure-blue; exquisite. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

MRS. CUTHBERTSON. Standard clear rose-pink, wings white, with faint blush of pink. Special strain. Pkt. 15c., oz. 60c., ¼lb. \$2.

MRS. C. W. BREADMORE. Creamy buff ground, beautifully edged with rose-pink. Special strain. Pkt. 15c., oz. 50c., ¼lb. \$1.50.

MRS. HARDCASTLE SYKES. Blush-pink. Special strain. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

MRS. HUGH DICKSON. The best of the cream-pinks. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

MRS. ROUTZAHN. Beautiful blending of soft-straw-color, tinted bluish-pink. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

MRS. TOWNSEND. White ground, edged pale blue. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

NUBIAN. The finest deep chocolate-maroon. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

OTHELLO SPENCER. Glossy maroon. Pkt. 10 cts., oz. 40 cts., ¼lb. \$1.50.

PRIMROSE SPENCER. The finest primrose. Special strain. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

QUEEN VICTORIA SPENCER. Opens bluish-tint, then turns to clear primrose. Black-seeded. Pkt. 10 cts., oz. 40 cts., ¼lb. \$1.50.

R. F. FELTON. An English variety, somewhat similar in color to Florence Nightingale. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

ROYAL PURPLE. A beautiful shade of rich royal purple. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

SENATOR SPENCER. Chocolate and seal-brown striped, flaked and mottled on ivory-white. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

STERLING STENT. Glorious deep salmon, suffused with orange. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

TENNANT SPENCER. A curious purplish mauve. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.

THOMAS STEVENSON. Brilliant orange-scarlet, the finest of its color. Special strain. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

VERMILION BRILLIANT. Brilliant scarlet; very fine. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

WEDGWOOD. Bright silvery blue with a faint suggestion of mauve in the standard. Pkt. 15 cts., oz. 60 cts., ¼lb. \$2.

WHITE SPENCER. Splendid, uniform white. Pkt. 10 cts., oz. 40 cts., ¼lb. \$1.50.

GRAND PRIZE MIXTURE
Giant Spencer Sweet Peas

This is a combination of the best varieties of the Spencer Sweet Peas, and includes every described color and shade, good care being taken to have all the best varieties.

Packet	\$0 10
Ounce	35
Quarter-pound	1 25
Half-pound	2 00
Pound	3 50

Giant Waved or Spencer Sweet Peas

In order to make it less difficult for the amateur or professional gardener to choose varieties according to color and shades, we have prepared the following classification of all Spencer Sweet Peas listed on pages 62 and 92 of our catalogue.

White

	Pkt.	Oz.	½lb.
Etta Dyke. Good white.....	\$0 15	\$0 50	\$1 50
King White. Finest white.....	15	60	2 00
White Spencer. Fine white.....	10	40	1 50
Constance Hinton. The best black-seeded White Spencer.....	15	60	2 00

Pink

Agricola. Blush-pink, suffused lilac.....	15	60	2 00
Countess Spencer. Bright pink.....	10	40	1 50
Elfrida Pearson. Magnificent pale pink.....	15	60	2 00
Florence Morse Spencer. Blush-pink.....	10	40	1 50
Heracles. A glorified Countess Spencer.....	15	60	2 00
Margaret Atlee. Warm salmon-pink, exquisite color.....	15	60	2 00
Mrs. Hardcastle Sykes. Beautiful blush-pink.....	15	50	1 50
Mrs. Hugh Dickson. Beautiful cream-pink.....	15	50	1 50
Mrs. Routzahn. Soft straw-color, tinted blush-pink.....	15	50	1 50

Orange

Fiery Cross. A splendid orange-scarlet.....	15	60	2 00
Helen Lewis. Orange-salmon-pink.....	15	50	1 50
Thomas Stevenson. Darker and more dazzling than Helen Lewis. Fine orange-scarlet, lighter than Fiery Cross.....	15	60	2 00

Salmon

Barbara. Rich, glowing orange-salmon.....	15	50	1 50
Sterling Stent. Glorious deep salmon.....	15	60	2 00

Scarlet

Vermilion Brilliant. Brilliant scarlet.....	15	60	2 00
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Crimson

King Edward Spencer.	10	40	1 50
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Carmine

Decorator. The general tone is a deep cerise.....	15	60	2 00
George Herbert Spencer. Rosy carmine.....	15	50	1 50

Maroon

Nubian. Best maroon.....	15	60	2 00
Othello Spencer. Glossy maroon.....	10	40	1 50

Lavender

Asta Ohn. Beautiful soft lavender.....	15	60	2 00
Florence Nightingale. Rich lavender, soft pinkish sheen; exquisite.....	15	50	1 50
R. F. Felton. Somewhat similar in color to the above variety.....	15	60	2 00

Blue

	Pkt.	Oz.	½lb.
Margaret Madison. Clear azure-blue; an exquisite variety.....	\$0 15	\$0 50	\$1 50
Wedgwood. Bright silvery blue, with a faint suggestion of mauve in the standard.....	15	60	2 00

Mauve

Tennant Spencer. A curious purplish mauve.....	15	50	1 50
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Purple

Captain of the Blues Spencer. Pure purple; margin of petals marbled.....	15	50	1 50
Royal Purple. Our novelty of last year; the finest, rich, royal purple.....	15	60	2 00

Picotee-Edged

Cherub. Cream ground, edged bright rose.....	15	50	1 50
Blue Picotee. White ground with a picotee edge of pale blue.....	15	60	2 00
Dainty Spencer. White ground, beautiful picotee edge of rose-pink.....	10	40	1 50
Mrs. C. W. Breadmore. Cream ground, beautiful picotee edge of pink.....	15	50	1 50
Mrs. Townsend. White ground, edged pale blue.....	15	50	1 50

Primrose

Dobbie's Cream. Deep cream-yellow; exquisite.....	15	60	2 00
Primrose Spencer. Beautiful primrose.....	15	50	1 50
Queen Victoria Spencer. Opens blush and turns to clear primrose.....	10	40	1 50

Bicolor

Mrs. Cuthbertson. The finest pink-and-white variety; standard rose-pink, wings white.....	15	60	2 00
Blanche Ferry Spencer. Good pink-and-white; standard rose, wings white.....	10	40	1 50

Fancies, Pastel Shades

Charles Foster. General effect of the flower is a mauve-pink.....	15	60	2 00
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Striped and Flaked

Aurora Spencer. White ground, striped and flaked orange-pink.....	10	40	1 50
Loyalty. Ground-color white, striped blue.....	15	50	1 50
Senator Spencer. Chocolate and seal-brown striped and flaked on ivory-white.....	15	50	1 50

COLLECTION

1 packet each of 46 varieties, 46 packets, \$6, postpaid



Six vases of Winter-flowering Spencer Sweet Peas, shown by William Vert, of the Howard Gould Estate, Port Washington, L. I., at the March exhibition of the International Flower Show, New York City, 1917, which won first prize. Seed supplied by us

NEW EARLY or WINTER-FLOWERING SPENCER SWEET PEAS

We have great pleasure in offering to our patrons a very complete list of Early or Winter-flowering Spencer Sweet Peas. Many of our patrons grew them under glass last fall and produced wonderful results. This, however, is not the only reason Sweet Pea growers have worked to produce the large-flowering strain of Sweet Pea to flower early. This new race of Early-flowering Spencer Sweet Peas are particularly adapted to sections where the Summer-flowering Spencer varieties have not proved satisfactory. In our southern states, Japan, Australia, as well as all tropical or subtropical countries, this strain of Early-flowering Spencers, if sown during the early fall months, will produce flowers during the winter and continue until killed by the extreme heat. This is a distinct advantage over the regular Spencer Sweet Peas which, if sown at the same time, will not begin flowering until April.

The expression *Early* before each variety is used so as to avoid these new varieties being confused with the late-flowering varieties. All packets contain 50 seeds each.

Early Asta Ohn. Identical in color and size of blossom to the well-known late-flowering Asta Ohn. A very popular lavender. Pkt. 25 cts., 1/2 oz. 75 cts., oz. \$1.25.

Early Blanche Ferry. Identical in color to the popular late-blooming pink and white variety. Pkt. 25 cts., 1/2 oz. 75 cts., oz. \$1.25.

Early Cream. Identical in color to the splendid cream, late-flowering variety. Pkt. 25 cts., 1/2 oz. 75 cts., oz. \$1.25.

Early Heatherbell. A beautiful shade of rich lavender-mauve. Pkt. 25 cts., 1/2 oz. \$1, oz. \$1.50.

Early Rose Queen. A very popular shade of rose-pink. A variety that has been used extensively. Pkt. 35 cts., 1/2 oz. \$1.50, oz. \$2.50.

Early Snowflake. One of the best white-flowering varieties. Pkt. 25 cts., 1/2 oz. \$1, oz. \$1.50.

Early Songbird. A pale pink variety, similar in color to the late-flowering Florence Morse Spencer. Pkt. 25 cts., 1/2 oz. 75 cts., oz. \$1.25.

Early Helen Lewis. Identical in color and size of blossom to the late-flowering Helen Lewis, being a fine shade of salmon-pink. Pkt. 25 cts., 1/2 oz. \$1, oz. \$1.50.

Early Spring Maid. A very light pink on a cream ground. Pkt. 25 cts., 1/2 oz. 75 cts., oz. \$1.25.

Early Melody. Beautiful shade of soft rose-pink. Pkt. 25 cts., 1/2 oz. 75 cts., oz. \$1.25.

Early Lavender King. One of the best of the new lavender selfs. This glorious new variety is a rich, true, deep lavender throughout. Pkt. 25 cts., 1/2 oz. 75 cts., oz. \$1.25.

Early Hercules. Identical in color and size of blossom to the late-flowering Hercules which is considered a glorified Countess Spencer. One of the finest bright pinks. Pkt. 25 cts., 1/2 oz. \$1, oz. \$1.50.

Early Morning Star. A beautiful shade of orange-scarlet similar in color to Thomas Stevenson. Pkt. 25 cts., 1/2 oz. \$1, oz. \$1.50.

Early Mrs. Spanolin. The finest black-seeded white variety. Pkt. 25 cts., 1/2 oz. \$1, oz. \$1.50.

Early Venus. Similar in color to Dainty Spencer in the late-flowering variety. Standard white, slightly flushed pink wings. Pkt. 25 cts., 1/2 oz. 75 cts., oz. \$1.25.

Early True Blue. As the name implies, this lovely novelty is a charming shade of true blue, or light grayish violet-blue, a color much wanted in this type. Pkt. 25 cts., 1/2 oz. \$1, oz. \$1.75.

Early White Orchid. A pure white. The flowers are of splendid substance. Pkt. 25 cts., 1/2 oz. 75 cts., oz. \$1.25.

Early Yarrowa. This beautiful variety, which was perhaps the first Winter-flowering Spencer Sweet Pea grown, has found a ready sale. The foliage is very heavy and the growth robust, sometimes reaching the height of 12 feet. The flowers are large and of a bright rose-pink color. Pkt. 20 cts., 1/2 oz. 60 cts., oz. \$1.

Culture of Sweet Peas. It is a well-known fact that, in order to have largest blooms of Sweet Peas, seed must be planted early so as to make the greatest root-development during early spring; many professional gardeners sow in pots and transplant in April, or sow the previous fall.

Sow seed as soon as the ground can be worked in the spring. Dig a trench about a foot wide and deep, and fill in with 6 inches of well-rotted stable manure; tread down firmly and replace the good garden soil. Draw a single straight line in the middle of the prepared surface, about 3/4 inch deep; sow seed at even distances of about 3 inches and cover. When the plants grow about 3 or 4 inches high, thin out, leaving the plants 6 inches from each other. (Experts who raise for exhibition thin out to one foot.)

The cutworm is one of the greatest enemies of Sweet Peas, attacking the young shoots just as they come up. At the first appearance of this pest, a good sprinkling of lime over the row sometimes helps to exterminate it. As soon as the vines reach a height of about 8 inches, proper trellis or other supports should be provided.

The Sweet Pea is a moisture-loving plant, and by the month of May the plants will require water. In order that the water may be retained by the soil and get to the roots, as well as to keep them cool, it is advisable to use a mulch of old stable manure and soak well with hose each or every other day, as needed.

STOCKS

These popular flowers are easily grown, and are so highly fragrant and of such great beauty, and have so many good qualities, that they deserve a place in every garden. They should be given good rich soil to grow in, and will amply reward good treatment with remarkably large pyramids of bloom; the flowers represent a great diversity of color. The Tall Perfection and Dwarf Bouquet Stocks are great improvements over the Gilliflowers of the olden times, the flowers being much larger and more densely double, and there is also a much larger variety of colors and shades than there used to be.

As they are half-hardy annuals, seed should be started in the house or hotbed during March or April, and planted into small pots; and then set out in the garden during May, allowing 1 foot of space between the plants, in order that they may attain full and perfect development.

Our Stock seed is high-bred, being produced from plants grown in pots by a specialist, and will afford a very large percentage of double-flowering plants.

S. & W. Co.'s Improved Giant Perfection

These are an improvement on the variety offered as Ten Weeks Stock. Of splendid, pyramidal growth, freely branching from the main stem, giving an abundance of large spikes of double flowers from early summer until fall, and are used largely for cutting. 2 feet. Pkt. 1/2oz.

White	\$o 25	\$1 00	Light Blue	\$o 25	\$1 00
Chamois-Rose	25	1 00	Dark Blue	25	1 00
Fiery Crimson	25	1 00	Sulphur-Yellow	25	1 00
Purple	25	1 00	Mixed	25	1 00

S. & W. Co.'s Dwarf Bouquet

This is a leading class for bedding out for summer blooming. They come into bloom earlier than the preceding varieties, but are dwarfer in habit and do not make so fine flowers for cutting. Pkt. 1/2oz.

White	\$o 25	\$1 00	Light Blue	\$o 25	\$1 00
Brilliant Rose	25	1 00	Dark Blue	25	1 00
Pale Pink	25	1 00	Sulphur-Yellow	25	1 00
Fiery Crimson	25	1 00	Mixed	25	1 00

Giant-Flowering Beauty Stocks

A magnificent, recently developed strain of early-flowering winter or Brompton Stocks, forming much-branched plants about 2 feet high, and having numerous spikes of very large, double, delightfully fragrant flowers; they are of special value as pot-plants for greenhouse decoration and for cutting during the dull winter months; for this purpose seed should be sown from July to September; if sown in February or March, will produce plants that will bloom from midsummer to frost. Pkt. 1/2oz.

Almond Blossom . White, shaded carmine.....	\$o 25	\$1 00
Beauty of Nice . Delicate pink.....	25	1 00
Crimson King . Rich blood-crimson.....	25	1 00
Mont Blanc . Purest white.....	25	1 00
Monte Carlo . Canary-yellow.....	25	1 00
Queen Alexandra . Beautiful lilac.....	25	1 00
Summer Night . Rich deep blue.....	25	1 00

Solanum

Capsicastrum (Jerusalem Cherry). This is a very useful pot-plant for winter decoration. It is of dwarf, branching habit; leaves small and oval-shaped; bears in the greatest profusion bright scarlet, globular berries; very ornamental. 1 foot. Pkt. 10 cts.

STATICE (Sea Lavender). Splendid biennial, either for the border or rockery, producing all summer panicles of minute flowers, which can be dried and used for winter bouquets. Mixed varieties. Pkt. 10 cts.

STEVIA serrata. A free-blooming plant, bearing a multitude of fragrant, pure white flowers; suitable for summer or winter blooming; largely used for cutting. Pkt. 10 cts.

STOKESIA (Cornflower Aster)

Cyanea. This is not new, but is a rare and beautiful hardy perennial. The plant grows about 2 feet high, bearing from twenty to thirty handsome lavender-blue cornflower-like blossoms; in bloom from July till frost. One of the choicest subjects for the hardy border and indispensable for cutting. Pkt. 15 cts., 1/2oz. \$1.

Cyanea alba. A pure white-flowering form, identical to the popular blue variety in every way except color. Pkt. 15 cts., 1/2oz. \$1.

Streptocarpus hybridus

A new hybrid race of the Cape Primrose, the flowers somewhat resembling those of the gloxinia, but smaller. The plants are compact in habit, the flowers 2 inches in diameter, with long, tube-like corollas, and are borne in clusters of six to eight on a stem, with several stems to the plants. The colors are varied from white through shades of pink, rose, wine-red, light blue, mauve, etc., many having white throats or marked in various ways. Used for greenhouse decoration. Pkt. 50 cts.



S. & W. CO.'S GIANT PERFECTION STOCKS

TAGETES signata pumila. A dwarf, compact, bushy annual Marigold, with beautiful, delicate, fern-like leaves, densely covered with flowers of bright yellow, striped brown; a first-class border plant. Pkt. 10 cts., 1/2oz. 50 cts.

THUNBERGIA (Black-eyed Susan). Beautiful, rapid-growing annual climbers, preferring a warm, sunny situation; used extensively for hanging-baskets, vases, low fences, etc., very pretty flowers in buff, white, orange, etc., with dark eyes. 4 feet. Mixed colors, pkt. 10 cts., 1/2oz. 50 cts.

TORENIA Fournieri. A very fine annual; splendid for vases, hanging-baskets, borders, etc. Sky-blue, with bright yellow center. Pkt. 10 cts.

SWEET WILLIAM (*Dianthus barbatus*)

A well-known, attractive biennial which flowers the second season from seed. Sow outdoors in May, and transplant in August.

	Pkt.	1/2 oz.
Single White	\$0 10	\$0 50
Single Crimson	10	50
Dark Crimson	10	50
Single Red, Margined White	10	50
Single Black-Red	10	50
Single Finest Mixed	10	50

COLLECTION. One pkt. each of 5 separate colors, 20 cts.

Double White	10	1 00
Double Crimson	10	1 00
Double Black-Red	10	1 00
Double Pink	10	1 00
Double Finest Mixed	10	75

Newport Pink. A distinct new color which originated in one of the far-famed gardens at Newport, R. I. In color it is what florists call watermelon-pink or salmon-rose; strikingly brilliant and beautiful. The flowers are borne in massive heads, on stems 18 inches high. For midseason mass bedding it has no equal. It is also very effective for cutting. Pkt. 15 cts., 2 pkts. 25 cts.

Scarlet Beauty. A very effective, rich, deep scarlet variety. Pkt. 15 cts., 2 pkts. 25 cts.

Holborn Glory. This strain is a large-flowered selection of the auriculated section, the most beautiful and admired of all Sweet Williams. Individual flowers and trusses are of extraordinary size, while the range of color, all showing a clear, white eye, is truly superb. Pkt. 10c., 1/2 oz. 50c.

TRITOMA uaria grandiflora (Red-Hot-Poker Plant). Hardy perennial. Flowers scarlet, orange and yellow, on a very prominent spike. September. 4 feet. \$0 10

Express. New. Similar to above, but throws up its flowers as early as June and continues till frost. 20

May Queen. New. Hardy perennial. Bright yellow flowers appear continuously from June till frost. The best sort in cultivation. 2 feet. June to October. 25

TROLLIUS Caucasicus (Orange Globe). A beautiful hardy perennial, with large, double, deep yellow flowers. 1 foot. 25

Europæus (Double Buttercup). Hardy perennial, with very large, yellow, globular flowers from May to August. 10

Japonicus (Giant Double Buttercup). One of our best yellow-flowering hardy perennials; flowers large. June and July. 25



SWEET WILLIAM (*Dianthus barbatus*)

VALERIAN (Garden Heliotrope). Hardy perennial. Pinnate foliage and panicles of flowers, with odor of heliotrope. 5 feet. June and July. Pkt. 10c., 1/2 oz. 50c.

Red	\$0 10	\$0 50
White	10	50
Mixed	10	40

MAMMOTH VERBENAS

We have been carefully selecting and improving this fine strain of Verbenas for years, and can recommend it as the very best procurable. The trusses and individual flowers are of the largest size, of brilliant colors, free-blooming and of vigorous habit. For best and quickest results seed should be sown early in the house or hotbed, and transplanted to flowering quarters in May. If sown outdoors in May, it blooms from the end of July on. Verbenas are better grown from seed than from cuttings, being more vigorous and not liable to disease.

	Pkt.	1/2 oz.
S. & W. Co.'s Mammoth Defiance. Scarlet	\$0 10	\$0 00
S. & W. Co.'s Mammoth Blue. Deep blue	10	2 00
S. & W. Co.'s Mammoth Pink. Deep pink	10	2 00
S. & W. Co.'s Mammoth White. Pure white	10	2 00
S. & W. Co.'s Mammoth Striped	10	2 00
S. & W. Co.'s Mammoth Yellow	10	2 00
S. & W. Co.'s Mammoth Mixed. Finest colors	10	2 00

COLLECTION. One pkt. each of 6 Mammoth Verbenas, 50 cts.

VARIOUS VERBENAS

Lemon Verbena (*Aloysia citrodora*). Every garden should have a few plants of this fragrant favorite. Its pale green, delightfully scented foliage goes well with any flower. 30 10

Ertinoides (Moss Verbena). This lovely variety produces a mass of moss-like foliage, spreading over the ground like a carpet, above which are borne heads of purplish blue and white blossoms in lavish profusion; comes into flower in June, and continues until frost. For beds, baskets or rockeries it is highly desirable. 10

Venosa (Hardy Garden Verbena). This variety is largely used for bedding purposes. It is a strong, thrifty grower, about 1 foot high, and covered from early summer until late fall with its bright heliotrope-purple flowers. 1/2 oz. 20 cts. 05



S. & W. CO.'S
MAMMOTH VERBENA

Vinca (Madagascar Periwinkle, or Old Maid)

Ornamental, free-blooming plants and one of the most satisfactory flowering bedding plants we have. It is best to start the seed early indoors or in a hotbed, but they begin blooming in August from seed sown out-of-doors in May, or as soon as the ground is warm, continuing until frost; or they may be potted and kept in bloom through the winter; a fine cut-flower, every bud opening when placed in water. 2 feet.

	Pkt.	Oz.
Alba. Pure white.....	\$o 10	\$1 00
Rosea. Rose.....	10	1 00
Rosea alba. White, with rosy eye.....	10	1 00
Mixed.....	10	75

VERONICA spicata. An elegant hardy border plant, growing about 1½ feet high, bearing all summer spikes of bright blue flowers, which lengthen with age. \$o 10

Spicata alba. White..... 10

Spicata rosea. Pink..... 10

Spicata, Mixed..... 10

Viola (Tufted Pansies)

While the flowers of Tufted Pansies are not so large as the regular type, yet they bloom so freely that they are superior to Pansies where effect is wanted, the colors being particularly clear and distinct. They also bloom for a longer time. Seed sown in April produces flowering plants in June, and from then on until frost they are a sheet of bloom.

	Pkt.	Oz.
Cornuta, Admirable. Large; dark blue.....	\$o 25	\$3 00
" Purple Queen	10	3 00
" alba. White.....	10	2 50
" Papilio. Blue, with dark eye.....	10	2 50
" Perfection. Light blue; large-flowered.....	10	2 50
" Yellow.	10	3 00

VIOLET (*Viola odorata*). Single Sweet Violet..... 10

WAHLBERGIA grandiflora (Chinese Bellflower; Platycodon). A superb hardy perennial, bearing a profusion of large, bell-shaped flowers from June to October. 2 to 3 feet. Pkt. Oz.

Grandiflora alba. White.....	\$o 10	\$o 75
" Blue	10	75
" caerulea plena. Dark blue.....	10	75
" nana (Mariesi). Dark blue.....	10	75



GIANT DOUBLE-FLOWERING ZINNIA

VIRGINIAN STOCK. Sown early, these pretty annuals are gay in the period between the spring and summer flowers, their fresh, bright colors in lines and beds producing a charming effect. May be sown like sweet alyssum; excellent for the border. **White, Rose, Crimson, or Mixed.** Pkt. 10 cts., oz. 60 cts.

Wallflower

These half-hardy perennial and annual Wallflowers are grown for early spring bedding and are delicious for their fragrance. Perennial sorts should be sown in autumn and carried over in coldframe; annual sorts may be sown indoors in March and will flower the first year from seed.

Early Parisian. Golden, shaded orange-red.....	\$o 10
" Blood-Red. Red, orange shaded.....	10
" Golden Gem. Yellow.....	10
" Finest Mixed	10

Single Perennial, Mixed. A mixture of all shades of this delightful flower..... 10

Double Perennial, Mixed..... 15

Winter-blooming Wallflower. (*Cheiranthus Keenensis*). A beautiful shade of yellow on opening of flower, gradually changing to orange or purple-violet..... 25

ZINNIA (Youth and Old Age)

The seed may be sown in a hotbed or sunny window and transplanted, or sown later in the open ground. The plants come into flower early in the summer and keep on blooming until hard frost.

Giant Double-Flowering

This Zinnia, featured also in the novelty section of our catalogue, is a wonderful improvement over the Tall Double-flowering for size of flower and general vigor of the plant. Trials of this Zinnia sowed in the open ground in April produced flowers 6 inches in diameter on plants 2 to 2½ feet high. A splendid companion to our Giant Double African Margold listed on page 60 of this catalogue. If sown in the open ground in April, thin out as soon as the plants are well up, leaving at least 18 inches each way, as they are robust growers, and require a large amount of space to attain maximum size.

	Pkt.	Oz.
Tall Giant Double, White	\$o 25	\$2 00
" Rose	25	2 00
" Crimson	25	2 00
" Yellow	25	2 00
" Purple	25	2 00
" Scarlet	25	2 00
" Mixed	25	2 00

Dwarf Double-Flowering

This type of Zinnia, while not so tall as our Giant Double-flowering varieties, offered above, is a very satisfactory type for borders or cutting. Grows about 1½ feet high; flowers perfect.

	Pkt.	Oz.
Crimson	\$o 10	\$1 00
Purple	10	1 00
Golden	10	1 00
Lemon-Yellow	10	1 00
Salmon-Rose	10	1 00
Scarlet	10	1 00
White	10	1 00
Mixed	10	75

Tall Double-flowering Mixed. This Zinnia is similar in height and form of plant to our Giant Double-flowering except the flowers which are about two-thirds the size. **Pkt. 10 cts., Oz. \$1.**

Curled and Crested. Large, double flowers, with petals twisted, curled and crested into the most fantastic and graceful forms. Usual range of colors. Pkt. 10 cts.

Striped, or Zebra. Large, double flowers of orange, crimson, pink, yellow, white, etc., striped and blotched with different colors. Mixed colors. Pkt. 10 cts.

Zinnia, Lilliput

This variety forms a bush about 1 foot high, and is covered with small, very double flowers in profusion.

	Pkt.	½oz.		Pkt.	½oz.
Scarlet Gem	\$o 10	\$o 25	Orange Gem	\$o 10	\$o 25
Golden Gem	10	25	White Gem	10	25
Lilac Gem	10	25	Finest Mixed	10	25

Ornamental Grasses

The annual varieties are principally grown for their beautiful flower panicles which when dried are very useful for bouquet work. Perennial varieties are very valuable for borders or massed between shrubs or on the open lawn. Many of the varieties listed below have beautifully variegated foliage and, when planted as indicated above, they are most effective and pleasing.

Annals, except where otherwise stated. Sow outside in May, transplant or thin out when large enough to handle. If grasses are cut before they are ripe, they will keep for a long period.



A Bed of Ornamental Grasses

- AGROSTIS nebulosa.** Annual. A very beautiful variety. Pkt. 10 cts.
Pulchella. A very striking sort. Pkt. 10 cts.
ANTHOXANTHUM gracile. Annual. Useful for edging. Pkt. 10 cts.
BRIZA compacta. Very pretty annual. 18 inches. Pkt. 10 cts.
Geniculata. Very pretty annual. 18 inches. Pkt. 10 cts.
Gracilis. Very pretty annual for bouquets. 12 inches. Pkt. 10 cts.
Maxima. Considered by many to be one of the best varieties for bouquet and dried flowers. Annual. 12 inches. Pkt. 10 cts.
BROMUS brizaeformis. Large drooping panicles, useful for bouquets. Annual. 2 feet. Pkt. 10 cts.
COIX lacryma (Job's Tears). A strong broad-leaved grass with large shining pearly seeds. Annual. 3 feet. Pkt. 10 cts.
ERIANTHUS Ravenae. A hardy perennial grass resembling the Pampas, with beautiful foliage and fine silvery plumes; excellent for lawn specimens. Blooms first year from seed if sown early. Pkt. 10 cts.

COLLECTION: 12 distinct varieties of Ornamental Grasses \$1 00
 6 distinct varieties of Ornamental Grasses 50

- ERAGROSTIS elegans (Love Grass).** Annual. 1 foot. Pkt. 10 cts.
EULALIA japonica foliis vitatis. A very beautiful perennial variety used for forming large clumps. Leaves dark green, striped white. 4 feet. Pkt. 10 cts.
Zebrina (Zebra Grass). A very striking variety, very extensively used where an attractive variegated variety is wanted. 4 feet. Pkt. 10 cts.
GYNERIUM argenteum (Pampas Grass). Perennial, with magnificent silvery plumes. 6 feet. Pkt. 10 cts.
Jubatum. Panicles silvery rose. Pkt. 10 cts.
HORDEUM jubatum (Squirrel Tail Grass). Annual. Used for bouquets. 2 feet. Pkt. 10 cts.
ISOLEYIS gracilis. Graceful dwarf grass for pots. Pkt. 10 cts.
LAGURUS ovatus. Hardy annual, with silvery gray tufts. 1 foot. Pkt. 10 cts.
PENNISETUM longistylum. An annual grass with gracefully drooping heads. 2 feet. Pkt. 10 cts.
Ruppelianum. The foliage is long and slender, gracefully recurved and glossy deep green in color. If sown in March in heat, the plants should bloom by the middle of July, and the silvery plumes, tinted with violet-purple, waving in the sunlight, are exquisitely beautiful; hardy perennial. 3 feet. Pkt. 10 cts.
STIPA elegantissima. Perennial. Pkt. 10 cts.
Pennata (Feather Grass). With silvery white feathery plumes. Pkt. 10 cts.
SETARIA macrochaeta. Drooping plumes of graceful appearance. Annual. Pkt. 10 cts.
UNIOLA latifolia. Perennial; very pretty. Pkt. 10 cts.
ZEJA japonica. Striped maize. Pkt. 10 cts.
TALL. Annual Varieties, Mixed. Pkt. 10 cts.
DWARF. Annual Varieties, Mixed. Pkt. 10 cts.

Everlasting Flowers

The following list of Everlastings are annuals, except where noted.

- ACROCLINIUM.** Hardy annual. Good for cutting. Double White, Double Pink, Single Rose, and Double Mixed. Each, pkt. 10 cts.
GLOBE AMARANTH (Gomphrena). Sometimes called "Bachelor's Buttons." Popular bedding plants; flowers resemble clover heads and can be dried and used in winter bouquets. Rose, White, Purple, and Mixed. Each, pkt. 10 cts., oz. 50 cts.
HELICHRYSUM (Straw Flower). One of the best and most popular of the "Everlastings." Very effective double flowers, making a fine display in beds or borders. To produce excellent plants thin out to 2 feet.
Monstrosium. Double Yellow, White, Rose, Scarlet, and Mixed. Each, pkt. 10 cts.

Sow outside in May and thin out to 6 inches.

- RHODANTHE.** Very beautiful, delicate looking "Everlastings," much prized for winter bouquets.
Maculata. Single White, Rose, and Mixed. Each, pkt. 10 cts.
STATICE (Sea Lavender). Splendid hardy perennials, either for the border or rockery, producing all summer panicles of minute flowers, which can be dried and used for winter bouquets. Mixed varieties. Pkt. 10 cts.
XERANTHEMUM annuum (Immortelle). Grows about 3 feet high, and can be sown in the open ground early in May, growing readily in any open, sunny position, remaining in bloom from early summer until frost, bearing in abundance. Rose, Purple, White, and Mixed. Each, pkt. 10 cts.

Ornamental Beets

Beets that have no tubers, but with handsome ornamental foliage of very rich colors. Very effective in center of beds, or anywhere in contrast with other plants.

- BRAZILIAN.** Golden-leaved, scarlet-veined and crimson-veined. Pkt. 10 cts., oz. 50 cts.
DELL'S CRIMSON. A small, compact-growing variety, with deep bronze-purple foliage. Pkt. 10 cts., oz. 50 cts.

NEW AND CHOICE CANNAS (DORMANT ROOTS)

The wonderful size of flowers, depth of coloring, and graceful habit of plants in the modern Canna have greatly increased its usefulness to the garden-lover. It is much to be regretted that we occasionally observe mass plantings at railroad terminals and at some of our public institutions of the old Indian Shot. The modern Cannas we offer on this page are so far superior in every way that we feel certain that in a few years hence they will not only be used extensively for mass planting in beds, but will also be used in hardy borders, particularly for their foliage and color effect.

Dormant roots of Cannas should be potted in 4- or 5-inch pots or planted in shallow boxes in March or April, and kept in a warm place to start them into growth. The started plants may be planted out about May 20 to June 10 in the vicinity of New York; earlier in the South and later in the North. They should be set about 18 inches apart.

The Best Eight New Cannas

RED SHADES

Light and Dark

Cheerfulness. Its beautiful bright fire-red or deep orange flowers appear early and continue without interruption until frost. The petals are prettily bordered golden yellow and center of each petal is flaked carmine-crimson. A very attractive variety, the stems bearing the flowers well above the foliage. Height 3½ feet. 30 cts. each, \$3 per doz., \$20 per 100.

The President. In color, a rich, glowing scarlet, and the immense, firm, rounded flowers, 7 inches across when open, are produced on strong, erect stalks well above the large, rich green foliage. "The President" is superior to any other red variety in quantity and quality of bloom, and the firm flowers resist drought and heat to a remarkable degree. Considered the finest Canna ever produced. Height 4 feet. 50 cts. each, \$5 per doz., \$40 per 100.

PINK SHADES

City of Portland. Glowing pink, deeper in color than its parent, Mrs. Alfred F. Conard; profuse bloomer. Height 4½ feet. 35 cts. each, \$3.50 per doz., \$25 per 100.

Hungaria. The ideal pink bedder. Flowers large, in good trusses; color not unlike that of Paul Neyron rose. One of the best of the newer introductions and without a doubt one of the finest pink bedding Cannas as yet introduced. Height 3½ feet. 30 cts. each, \$3 per doz., \$20 per 100.

WHITE SHADES

Eureka. Canna hybridizers have worked patiently ever since the time of the introduction of the modern Canna, which bears such little relation as regards beauty of foliage and size of flowers to the old Indian Shot of bygone days, to produce a pure white. In offering Eureka we feel that our patrons are using the best all-round white variety for general mass planting or bedding. Height 4 feet. 30 cts. each, \$3 per doz., \$20 per 100.

Buttercup. A beautiful, bright buttercup-yellow. One of the best of its color. Because of its dwarf, compact habit, it is especially valuable for planting as a border around taller sorts. Height 3 feet. 15 cts. each, \$1.50 per doz., \$10 per 100.

Express. A scarlet-flowering Canna of great brilliance of color. It is of dwarf, compact habit and the foliage is a deep shade of green. Its very dwarf habit makes it an excellent Canna for border planting. Height 3 feet. 15 cts. each, \$1.50 per doz., \$10 per 100.

King Humbert. Of superlative beauty and by far the finest of all bronze-leaved Cannas. The enormous flowers are made up of flowers that measure 6 inches across, and are a rich salmon-scarlet, distinctly and numerously flecked with deep crimson markings. It is a free bloomer, and with its rich, coppery bronze, massive foliage, it produces an effect both bold and striking. Height 5 feet. 15 cts. each, \$1.50 per doz., \$10 per 100.



YELLOW SHADES

Goldbird. Among the canary-yellow varieties of recent origin. Goldbird is an excellent sort. The immense soft canary-yellow flowers are borne in large clusters well above the foliage. Height 4 feet. 30 cts. each, \$3 per doz., \$20 per 100.

Richard Wallace. While this variety is not new, it still remains among the best of the canary-yellow sorts. The habit of the plant is excellent. The flowers are very large and are borne gracefully above the foliage. Height 4½ feet. 25 cts. each, \$2.50 per doz., \$18 per 100.

VARIEGATED

Lahneck. A very free bloomer, producing an abundance of trusses on erect stalks well above the foliage. The color is fundamentally rosy, with lines and shadings of scarlet-carmine hues. The narrow gold border adds to the beauty of this charming variety. Height 4 feet. 25 cts. each, \$2.50 per doz., \$18 per 100.

Six Good Standard Varieties

Meteor. A vigorous grower, with healthy foliage; each root produces five or six trusses of bloom, which continue flowering the entire summer; pleasing deep crimson. Height 5 feet. 15 cts. each, \$1.50 per doz., \$10 per 100.

Panama. The color of this splendid Canna is unusual, being an attractive rich orange-red, with a well-defined edge of bright golden yellow. The flowers are very large, the petals being almost round and the immense spread of individual blooms, coupled with the early, free-flowering habit and unique coloring, make this Canna most noteworthy. Height 3 feet. 15 cts. each, \$1.50 per doz., \$10 per 100.

Wintzer's Colossal. Without a doubt the largest-flowering Canna to date, as the average flower more than covers a man's hat. The color is a striking vivid scarlet that retains its brilliancy. Height 5 feet. 15 cts. each, \$1.50 per doz., \$10 per 100.

Collection. One each of the 6 varieties, 75 cts.

GLADIOLI

*The Cream of the World's
Best Varieties*

MOST POPULAR OF ALL SUMMER-FLOWERING BULBOUS PLANTS

Few of the Summer-flowering Bulbous Plants have met with the same increased interest that Gladioli have in the past ten years. Their adaptability for garden decoration or use as a cut-flower during the summer and autumn months is not surpassed by any bulbous plant we know of. In cutting Gladioli for the house, it is best to cut the spikes as soon as the first one or two flowers are open. The remainder will open in the house. If you take pains each day to remove the faded flowers, cut a little off the end of the stem and change the water, a spike will last a week or ten days.

Few flowering bulbs can be commended as highly for improvement as the Gladioli. The ruffled petals, as illustrated in the *Kunderd* type, bespeak a marked advance. Of the following named varieties introduced by that celebrated and enthusiastic hybridizer, Mr. Kunderd, we recommend and have listed for the first time in our catalogue *Corunna*, *Giant White*, *Mrs. W. E. Fryer*, *Mona Lisa*, *Orange Glory*, *Pride of Goshen*, and *White Glory*, as well as the set of 8 New and Rare *Primulinus* Hybrids.

Afterglow. This very beautiful variety, which we are first offering this year at a moderate price, should be in every good collection of Gladioli. The flowers are large, of wonderful substance, and borne on tall, upright spikes 5 to 6 feet high. They are well placed, wide open, and of an exquisite shade of salmon-fawn with a light violet-blue center. **40 cts. each, \$4 per doz., \$32 per 100.**

America. Delicate lavender-pink flowers of large size, borne on strong stems, and well placed; splendid habit. Very popular cut-flower variety. **10 cts. each, 80 cts. per doz., \$6 per 100.**

Attraction. Rich crimson-scarlet, with a conspicuous large white blotch in the center of the lower petals. Flowers are well placed and borne on strong spikes. A very attractive variety. **10 cts. each, 80 cts. per doz., \$6 per 100.**

Augusta. Medium-sized flowers of blush-white, throat slightly tinted lavender. Excellent for cutting. **10 cts. each, 80 cts. per doz., \$6 per 100.**

Baron Hulot. Rich, royal violet-blue. One of the finest of its color. Flowers are medium in size, well placed, and borne on strong spikes. A variety used for contrasting with the pale and deep yellow sorts. **15 cts. each, \$1.50 per doz., \$12 per 100.**

Berkshire. Very delicate shade of pink, lower petals penciled darker, pointed with canary-yellow. Large, well-open flowers of splendid substance, borne on strong spikes. **30 cts. each, \$3 per doz., \$20 per 100.**

Brenchleyensis. Clear vermilion-scarlet. A very popular variety with commercial florists. **10 cts. each, 80 cts. per doz., \$6 per 100.**

Corunna. Large flower with wide-spreading petals. Has a remarkably large almost coal-black throat, bordered white. A very extraordinary flower, borne on strong stiff stems. **50 cts. each, \$5 per doz., \$35 per 100.**

Display. Medium-sized flowers, almost pure white, with a blotch of dark violet-crimson, well placed on strong, stiff spikes. A new variety that will become more popular when better known. **30 cts. each, \$3 per doz., \$22 per 100.**

Empress of India. Flowers are a rare shade of rich, dark brown-red—the deepest of its color offered by us. They are large in size, of good substance, and borne on strong, stiff spikes. **15 cts. each, \$1.50 per doz., \$12 per 100.**

Evolution Perfectus. A distinct variety, the spike of which is of curious vine-like character. Flowers are a dark rose, at times blotched white. **30c. ea., \$3 per doz., \$22 per 100.**

Excelsa. Splendid shade of rose-pink, relieved by white blotch on the lower petals. Flowers are of medium size, borne on strong spikes, well placed, and of good substance. **25 cts. each, \$2.50 per doz., \$18 per 100.**

Giant White. A very large white. A wonderful grower, of excellent habit. Pure white with an elegant slight marking on the lower petals. A variety that will become popular on account of its splendid size and substance. **25 cts. each, \$2.50 per doz., \$20 per 100.**

Glory. This beautiful ruffled Gladiolus has become quite popular. The flowers are broadly expanded and well placed on straight strong spikes. The color is a creamy pink with a most attractive crimson stripe on the center of each lower petal. **15 cts. each, \$1.50 per doz., \$12 per 100.**

Halley. A variety that is largely grown on account of its earliness. The flowers are large in size, of beautiful salmon-pink, with creamy white blotch in throat. One of the earliest-blooming varieties in our list. **10 cts. each, 80 cts. per doz., \$6 per 100.**

GLADIOLI

*Everybody's Flower Because
Everybody Can Grow Them*

CULTURE.—Any good garden soil will grow Gladioli well, provided they are planted in a sunny location. Bulbs should be planted 4 inches deep and at least 6 inches apart; frequent cultivation with a hoe or weeder, around the base of the plant, to prevent the soil from becoming hard or cakey, is advisable. Where desired for garden decoration or exhibition, we advise plants being staked after attaining the height of 1 foot. (We offer light green dyed bamboo canes, which are excellent for this purpose.) Water copiously, and as the flower-buds begin to form, apply liquid manure for the best results.

La Luna. Creamy white flowers, with very bright blotch and dark maroon ground on lower petals; wide open; wonderful substance; medium in height; borne on strong spikes. A very attractive variety in every way and one that should be grown in the best collections. **40 cts. each, \$4 per doz., \$32 per 100.**

Mary Fennel. A beautiful shade of deep lavender, with petals penciled primrose. Flowers are large in size, borne on spikes medium in height. An excellent variety for contrasting with pale pink and primrose sorts. **30 cts. each, \$3 per doz., \$22 per 100.**

Mrs. Francis King. Brilliant flamingo-pink, blazed with vermilion-red. Popular variety on account of its attractive color. Splendid for mass effects. Flowers are large in size, well placed on strong, tall spikes. **10 cts. each, 50 cts. per doz., \$6 per 100.**

Mona Lisa. One of the loveliest of the new varieties, offered by us for the first time this year. A beautiful, pale, refined soft pink. The spikes are borne magnificently above the foliage with many of the flowers open at the same time. A splendid almost pure self color. **75 cts. each, \$7.50 per doz., \$50 per 100.**

Mrs. Francis Sprague. A very light mauve, deepening toward center of throat. Flowers of medium size, wonderful substance, and well placed on strong spikes. **75 cts. each, \$7.50 per doz., \$50 per 100.**

Mrs. Frank Pendleton. Salmon-pink which extends to reverse side of the petals as well as in the center, with a rich, deep maroon blotch on the three lower petals. Flowers are wide open and well placed on strong spikes. A variety that has become very popular since its introduction some years ago and now can be obtained at a more moderate price. **15 cts. each, \$1.50 per doz., \$12 per 100.**

Mrs. W. E. Fryer. A very striking pure orange-scarlet color. A splendid bedding variety. The flowers are large and are well placed on strong, stiff stems. **20 cts. each, \$2 per doz., \$15 per 100.**

Niagara. Soft primrose, faint lines of lilac in the throat, with purple stamens and pale carmine stigmas which add to the attractiveness of the variety. Flowers are large in size, borne on tall spikes. **15 cts. each, \$1.50 per doz., \$12 per 100.**

Orange Glory. This beautiful new Ruffled Glory has all the refined qualities of the original variety, Glory. The color is a splendid shade of rosy orange. The flowers are exquisitely ruffled and are well placed on strong, stiff stems. **40 cts. each, \$4 per doz., \$32 per 100.**

Pacha. A distinct nasturtium-orange. Flowers are large in size, well opened, borne on tall, graceful spikes. This is a variety that will become very popular on account of its distinct color when better known. **20 cts. each, \$2 per doz., \$15 per 100.**

Panama. Similar in type to America, but of a deeper shade of pure rose-pink. The flowers are large in size and well placed on tall, strong spikes. **15 cts. each, \$1.50 per doz., \$12 per 100.**

Papilio Rose. A very charming variety and a hybrid of the species Papilio Major. It is practically one color, a pale rose-pink, but a zone of creamy white gives a blotch effect on the interior petals of the original body color. The flowers are large, well opened, and are borne in graceful spikes. **20 cts. each, \$2 per doz., \$15 per 100.**

Peace. Few varieties have become as popular as Peace. The general effect of the flower is white, with a pale lilac feathering on the interior petals. They are large in size, well placed, and are borne on tall, strong spikes. **15 cts. each, \$1.50 per doz., \$12 per 100.**

Peachblow. A very charming variety of dark Peachblow-pink. Wonderful for mass effects in beds or borders. The flowers are of medium size, well opened and borne on strong spikes of medium height. **20 cts. each, \$2 per doz., \$15 per 100.**

Pride of Goshen. Considered by many as being a glorified Glory. The flowers are of a salmon or flesh-pink, and are exquisitely waved. A very tall and vigorous-growing variety. **20 cts. each, \$2.50 per doz., \$20 per 100.**

If you have never grown the *Primulinus Gladioli*, we urge you to try a few. See page 102



Gladiolus, War (see page 102)

GLADIOLI

Plant a few bulbs each week, from May to August. Provide wonderful cut-flowers for the home from July to October.

Princeps. Brilliant scarlet-crimson, white blotch on lower petals. Very large-sized flower of brilliant coloring borne on strong spikes of medium height. **15 cts. each, \$1.50 per doz., \$12 per 100.**

Princess Altieri. A very lovely variety. The flowers are pure white, colored with a dash of carmine in the throat. A tall grower. Flowers are of excellent substance, well arranged on strong spikes, frequently attaining the height of 5 feet. **20 cts. each, \$2 per doz., \$15 per 100.**

Rutland. Practically a self color—deep claret, lower petals marked with a fine yellow line. Exceptionally strong grower, with flowers medium in size and well placed on strong spikes. **15 cts. each, \$1.25 per doz., \$9 per 100.**

Schwaben. Pure canary-yellow, with a carmine blotch deep in the throat which aids in detracting from its uniformity in color. Flowers are wide open, large in size and well placed on strong spikes of medium height. **15 cts. each, \$1.50 per doz., \$12 per 100.**

Sulphur King. A clear sulphur-yellow. The flowers, while not as large as Schwaben, are elegantly placed on the spike. Many are open at the same time and they are deeper in color than the variety Schwaben. Considered the best self yellow variety with the exception of Golden Measure, the stock of which is still too small to be offered. **25 cts. each, \$2.50 per doz., \$20 per 100.**

War. (Originator's stock.) The finest of its color yet introduced. Flowers often measure 7 inches across, of a deep ox-blood-red, shaded crimson-black. The flowers are well placed on spikes frequently attaining a height of 5 or 6 feet. The foliage is broad, deep green, almost as heavy as an iris leaf. A wonderful variety that can now be had at a reasonable price. **25 cts. each, \$2.50 per doz., \$20 per 100.**

White Glory. A gorgeous pure white variety of the same type as **Glory.** The flowers are exquisitely shaped, splendidly ruffled, of pure white color with a lovely iris-blue throat. **35 cts. each, \$3.50 per doz., \$28 per 100.**

NEW AND RARE PRIMULINUS

HYBRIDS

Every flower-lover who visited the Gladiolus Exhibition of the American Gladiolus Society held in Boston this past summer will recall that the outstanding exhibits that attracted many people to favorably comment on the beauty of the exhibition were the well-arranged vases of beautiful named Primulinus Hybrids.

To the flower-lover who has become interested in the Primulinus Hybrids and knows them, the following varieties will have a strong appeal. They are all of Mr. Kunder's introduction and are considered by many as being among his best.

Primulinus Hybrids are distinguished mainly for their fine and various shades of yellow, orange, and saffron tones. The flowers are borne on graceful stems and when cut are of splendid decorative value.

ALICE TIPLADY. Tall, straight spike with ten to twelve blooms. Immense flowers of brilliant orange-salmon, with golden throat. A very showy, magnificent flower. **35 cts. each, \$3.50 per doz., \$28 per 100.**

ALTAIR. Tall, straight spike, twelve to fourteen blooms, five or six open at once. Pale saffron, almost a self color, buds deeper saffron. **25 cts. each, \$2.50 per doz., \$18 per 100.**

ARGOS. Straight, tall spike with fourteen or fifteen blooms, large and well opened. Color salmon-rose, somewhat lighter than Sirius. **25 cts. each, \$2.50 per doz., \$18 per 100.**

BUTTERFLY. Tall, strong spike with twelve to fourteen blooms. Flowers very large, wide open, and with pointed petals, slightly ruffled. Color a lovely, pale salmon-rose, with soft yellow throat. Flower is well named, as its resemblance to a butterfly with spreading wings is very marked. **25 cts. each, \$2.50 per doz., \$18 per 100.**

GOLDEN GATE. Tall spike with ten or twelve blooms, four or five open at once. Large flowers; strong yellow, deeper in throat. **35 cts. each, \$3.50 per doz., \$25 per 100.**

SALMON BEAUTY. One of the largest and most striking of the Primulinus. Tall, straight spike, with ten or twelve blooms. Bright salmon with golden yellow throat. **35 cts. each, \$3.50 per doz., \$25 per 100.**

SIRIUS. Tall, straight spike with ten or twelve flowers widely opened. Color brightest salmon-rose with yellow throat. A very striking flower. **25 cts. each, \$2.50 per doz., \$18 per 100.**

SWEET ORRA. Tall spike with twelve blooms. Color, pale primrose-yellow with pink line in throat. **25 cts. each, \$2.50 per doz., \$18 per 100.**



The illustration above shows the ruffled petals as characterized in the variety White Glory



Gladioli are excellent for the garden border

S. & W. Co.'s Famous Gladioli in Color Sections and Mixtures

GOLD MEDAL COLLECTIONS IN COLOR SECTIONS

These are especially selected collections of new hybrids prepared from the cream of the world's named introductions, many of the Gandavensis, Lemoine, and Nanceianus types. We consider this the finest we have ever offered to our patrons in the colored sections.

No. 1. Selected New Dark Hybrids

Shades in combinations of red, scarlet, crimson, mixed in finest qualities. We offer them at **75 cts. per doz., \$5 per 100, \$45 per 1,000.**

No. 2. New White, Light and Yellow Hybrids

Collections in this section cover many of the best white, light, and yellow shades of color of the named varieties. **80 cts. per doz., \$6 per 100, \$55 per 1,000.**

No. 3. Selected New Blue Hybrids

Many varieties of the new blue hybrids. **\$1.25 per doz., \$8 per 100, \$75 per 1,000.**

No. 4. Selected Mixed, All the Above Shades

A mixture of all colors of the above three named sections of this splendid race of Gladioli. **75 cts. per doz., \$5 per 100, \$45 per 1,000.**

S. & W. CO.'S NEW PRIMULINUS HYBRIDS

When the original Primulinus was first grown in this country, many Gladioli-growers were impressed with the graceful habit of the plant and flowers. They were small and somewhat hooded. The original species, as they were first introduced from South Africa, created interest among these growers mainly for their habit and the beautiful colorings of the flowers. They proceeded to cross them with the finest of the large-flowering Gladioli and the resultant crosses brought forth a really beautiful acquisition. The flowers were larger, more open, retaining their graceful placement on the spikes and also their beautiful range of artistic colors. Our hybrids range in color from pale sulphur-yellow-apricot to the deepest chrome-yellow and excellent shades of orange as well. We are pleased to offer this splendid mixture and suggest that our patrons try some, as for artistic decorations these flowers borne on long slender spikes are wonderful. **80 cts. per doz., \$6 per 100, \$55 per 1,000.**

S. & W. CO.'S MIXTURE OF AMERICAN HYBRIDS

In preparing this mixture of Gladioli, some surplus named sorts, we have endeavored to cover all the conceivable colors that obtain in this beautiful family of flowers. The mixture is prepared from the finest named as well as seedling sorts, and has with it a popular price so as to encourage the liberal planting of them. The varieties used in the mixture are varieties of matured good growers and are excellent for cut-flower purposes or for planting in mixed borders, and we offer them at **60c. per doz., \$4.50 per 100, \$40 per 1,000.**



Grouping of Gladioli in the garden border

HARDY LILIES

The Lilies offered below are among the best for spring planting. For a more extensive list we refer to our Fall Bulb Catalogue, issued in August. Our list is confined to those varieties we know from actual trials do best, and the following varieties will prove satisfactory if planted by June 1.

Lilies do best in the hardy border or among shrubbery, for the reason that the flowering stems bear masses of roots immediately below the ground surface, and the shady situation helps these roots to better feed the plant; when through flowering, these roots help in the rehabilitation of the bulbs for another season. Any good garden soil with good drainage will do. In planting, cover bulbs at least twice their height, and, if possible, spread 1 inch of sharp builders' sand under the base, so that after the bulbs make basal roots the sand will provide drainage if water-logged in winter. When hard frost sets in, cover with 4 to 6 inches of leaves or litter which should be removed when spring sets in.

Lilium auratum

Golden-Rayed Lily of Japan

The flowers are pure white, thickly studded with crimson spots, while through the center of each petal runs a clear golden band. Fully expanded, the flowers measure nearly a foot across, are produced abundantly from July to September, and possess a most delicious fragrance. 3 to 5 feet.

	Each	Doz.	100
8-in. to 9-in. bulbs.....	\$o 35	\$3 50	\$25 00
9-in. to 11-in. bulbs.....	45	4 50	35 00
11-in. to 13-in. bulbs.....	65	6 50	50 00

Lilium speciosum magnificum

Oriental Orchids

Words cannot describe the beauty of this variety. Frosted white, spotted, clouded and bordered with deep pinkish crimson. A much superior variety to the Roseum, Rubrum or Melpomene of the Speciosum type. For the border, among hardy plants or naturalized among rhododendrons, this is an equal favorite with the handsome *Lilium auratum* offered above. Splendid for pot culture as well. Blooms outside during August.

	Each	Doz.	100
8-in. to 9-in. bulbs.....	\$o 35	\$3 50	\$25 00
9-in. to 11-in. bulbs.....	45	4 50	35 00
11-in. to 13-in. bulbs.....	65	6 50	50 00

Lilium speciosum album

The White Speciosum, which is usually grown with Magnificum and *Lilium auratum*, is a very dainty Lily. It flowers outside in the border or among rhododendrons at the same time as Auratum and Magnificum, and is one of the most extensively cultivated varieties.

	Each	Doz.	100
8-in. to 9-in. bulbs.....	\$o 35	\$3 50	\$25 00
9-in. to 11-in. bulbs.....	45	4 50	35 00

Lilium Henryi (The Yellow Speciosum)

A new and very beautiful hardy Lily from northern China. The plants are of vigorous growth, frequently attaining the height of 6 feet. This Lily is noted for its graceful habit and is an unusually excellent bloomer. It is thoroughly hardy, and, when well established, will increase rapidly. Color rich golden yellow, lightly spotted with brown, and in shape quite resembles the Speciosum types. Flowers during August. Choice bulbs, 75 cts. each, \$7.50 per doz., \$60 per 100.

Lilium Hansonii

Attains a height of 3 to 4 feet. Flowers reddish orange, eight to twelve in a cluster; petals thick and durable; a native of Japan and has always been high in price, but we have a stock of strong, home-grown bulbs that will give splendid satisfaction. Flowers during June. Choice bulbs, 75 cts. each, \$7.50 per doz., \$60 per 100.



Lilium auratum (Golden-rayed Lily of Japan)

OTHER HARDY LILIES

Suitable for Garden Culture

	Each	Doz.	100
Batemanii. A truly charming Japanese variety, growing 3 feet high, with six to eight apricot-colored flowers on a stem. Blooms in July and August.....	\$o 25	\$2 50	\$18 00
Canadense (Canadian Bellflower Lily). One of the most beautiful native Lilies; flowers bright yellow, with spots of red. Blooms in July and August.....	20	2 00	15 00
Pardalinum. A California variety bearing twelve to thirty flowers on stems 4 to 6 feet high; bright orange, spotted dark crimson. Flowers in July.....	30	3 00	20 00
Superbum. In collection of best plants of all countries, our native Superbum Lily would deserve a first place. In deep, rich soil it often grows 8 feet high, with twenty to thirty flowers. It is of the easiest culture, and may be grown as a wild flower in any swampy or rough part of a place where the grass is not mown. Extra-selected bulbs.....	30	3 00	20 00
Tigris splendens. The finest type of the quaint and much-loved Tiger Lily. Large, selected bulbs.....	30	3 00	20 00
Tigris splendens, Double. The double form of the above.....	30	3 00	20 00

Lilium speciosum magnificum and *album* may be had from cold storage for July and August delivery. Write for prices.

GENERAL LIST OF BULBS AND ROOTS

APIOUS TUBEROSA

Tuberous-rooted Wistaria

Clusters of rich, deep purple flowers, which have a strong, delicious violet fragrance. Tubers 10 cts. each, 75 cts. per doz., \$5 per 100.

BEGONIAS

TUBEROUS-ROOTED

CULTURE.—A popular method of culture adopted by most amateurs is to provide a pan or box, and cover bottom surface to the depth of say one inch or two with sphagnum moss, placing the bulb immediately on top and then covering with still another layer of sphagnum moss. They should be kept moist and moderately warm. Plant in pots in a light but finely sifted soil, about one inch below the surface, and water cautiously until plant has shown considerable growth, then increase the amount. Good drainage is essential. A finely developed plant might consist of three bulbs planted in a 7-inch pot.

ERECT TYPE

(Large Bulbs, 1½ inches and up)

Single-Flowering Varieties

This class of the Tuberous-rooted Begonias is largely used for beds or border-planting.

White Orange Scarlet

Yellow Pink

35 cts. each, \$3.50 per doz., \$25 per 100
Select mixture of all sorts, equal proportions, 30 cts. each,
\$3 per doz., \$22.50 per 100

Double-Flowering Varieties

Crimson Salmon

Rose Scarlet

40 cts. each, \$4 per doz., \$30 per 100
Select mixture of all sorts, equal proportions, 35 cts. each,
\$3.50 per doz., \$25 per 100



Tuberous-rooted Begonias

CINNAMON VINE (*Dioscorea Batatas*)

A beautiful, rapid-growing summer climber, with bright green, glossy foliage, and spikes of deliciously cinnamon-scented, white flowers. It is perfectly hardy, the stem dying down in winter, but growing with great rapidity in the spring, so as to cover any trellis or arbor very early in the season. Large, select roots, 15c. ea., \$1.25 per doz., \$9 per 100; mammoth roots, 25c. each, \$2.50 per doz., \$15 per 100.

CALADIUM ESCULENTUM

Elephant's Ear

One of the most effective plants in cultivation for beds, borders or for planting out upon the lawn. Very frequently used as border plants about suburban residences, where their large, rich green leaves afford an excellent embellishment when contrasted with the colors of the dwellings. Leaves often measure 3 to 4 feet long and 2½ feet wide.

	Each	Doz.	100
First-size Bulbs.....	\$0 20	\$2 00	\$10 00
Large-size Bulbs.....	25	2 50	15 00
Mammoth-size Bulbs.....	40	4 00	30 00
Jumbo-size Bulbs.....	60	6 00	45 00

GLOXINIAS

This is, perhaps, one of the handsomest of summer-blooming, tuberous-rooted plants and should be grown more by the amateur than it has been. As a pot-plant for the window-garden it is grand. The main points to observe are, proper care in watering, good drainage and properly mixed soil. The cultural directions given for Begonias might also be followed for starting and growing Gloxinias. One bulb is usually used for a 4-inch pot.

S. & W. Co.'s Gloxinia erecta grandiflora. We have developed a special strain of these from seed which we offer in mixture only. The tubers are first-class, selected stock. The colors range through pink, scarlet, crimson, white, dark violet, and white bordered blue. 40 cts. each, \$4 per doz., \$30 per 100.

Caladium esculentum (Elephant's Ear) should not be planted outdoors in the vicinity of New York before May. They may be started indoors in pots earlier and transferred outdoors when all danger of frost is past. If, however, bulbs are planted as received from us when the ground is fairly warm in May, rapid growth may be expected.



Caladium esculentum (Elephant's Ear)

CALLAS (Richardia)

The varieties offered below succeed best when treated in the same manner as gladioli, tuberoses and other summer-flowering bulbs. They should be planted in the open border in a dormant condition when danger from frost is over in spring, and will then flower during the summer months. When the tops are killed by frost in the autumn, dig and store through the winter as you would potatoes.

Golden Yellow (Richardia Elliottiana). This is the best of the Yellow Callas, its flowers being as large as the popular white winter-flowering variety, and is of a rich, lustrous golden yellow of velvety texture; the foliage is dark green, with a number of translucent creamy white spots, which add much to its beauty. Strong bulbs 50 cts. each, \$5 per doz., \$40 per 100.

HYACINTHUS CANDICANS (Summer Hyacinth)

Luxuriant, free-growing summer-flowering plant; spreads 2 to 3 feet, throwing up great, tall spikes, 4 to 5 feet in height, each bearing twenty to thirty large, white, bell-shaped flowers. From our own personal trials we desire to advise our patrons against so-called "Jumbo" bulbs of this delightful plant, as this size frequently decays in the center after being planted. Choice bulbs, 10 cts. each, 75 cts. per doz., \$5 per 100.

OXALIS (Summer-flowering)

Valuable for edging walks, flower beds, etc. Bulbs planted 3 inches apart form rounded rows of delicate foliage, about 1 foot high, which produce flowers in endless succession.

Lasiandra. Rosy pink. Extra-fine, large flowers. 25 cts. per doz., \$2 per 100.

Deppi. Pink-flushed lavender and crimson. 25 cts. per doz., \$2 per 100.



Shamrock. Clover-like foliage; pink blossoms. 25 cts. per doz., \$2 per 100.

THE GREAT ISMENE

Those who are familiar with the true Giant Ismene cannot say enough in praise of its beauty and purity. The flowers are of a very large size, like an Amaryllis, of novel form and snowy whiteness, and are also exceedingly fragrant. It is really one of the most lovely of all the great Amaryllis tribe, having a peculiar grandeur, which one can appreciate at sight, but cannot describe. Bulbs are large and strong and begin to flower in two or three weeks after planting, sending up tall flower-stems, which bear several of its magnificent blossoms. The bulbs are not hardy, and should be taken up in the fall and stored in a suitable place until spring. Splendid pot-plants for the home. 25 cts. each, \$2.50 per doz.

MADEIRA VINE (Climbing Mignonette)

A beautiful and popular vine, covering a large space in a short time. Fleshy heart-shaped leaves of a light green, and numerous racemes of feathery flowers of delightful fragrance. Protect with litter in this latitude. 10 cts. each, 75 cts. per doz.; by mail, 10 cts. per doz. extra.

TRITOMA PFITZERI

The greatest bedding plant ever introduced, surpassing the finest cannas for attractiveness and brilliancy, equal to gladioli as a cut-flower, and blooms incessantly from June until December, regardless of frost. Plants are perfectly hardy in the open ground all winter south of Philadelphia; further north they must be protected or wintered in a cellar like the ordinary Tritoma. Just bury the roots in sand; nothing more is required. Should be planted out early in spring, and will commence growth and bloom at once, growing larger and finer every day. \$3 per doz., \$20 per 100.

TUBEROSES

One of the most delightfully fragrant and beautiful of the summer-flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed; and for a succession they can be planted at intervals as late as July. For flowering in the open border, plant about the middle of May, or as soon as the ground becomes warm. We accept orders to be booked for fall delivery from our patrons who wish to grow bulbs in their greenhouses during the winter months.

Excelsior Double Pearl. We offer two sizes of this popular bulbous plant. **First Size Selected Bulbs**, 10 cts. each, \$1 per doz., \$7 per 100; **Mammoth Bulbs**, 15 cts. each, \$1.50 per doz., \$12 per 100.



Try a few Bulbs of Golden Yellow Callas in your garden this year.



Tuberose

Tritoma Pfitzeri

NEW AND RARE EXHIBITION DAHLIAS

We have selected the following eighteen varieties of Dahlias as being worthy of every Dahlia lover's attention. Eleven of the varieties we offered last year in Green Plants but we are able to offer tubers this year. We are offering these as being not only among the best of the newest in Dahlias from an exhibition standpoint but as excellent cut-flower varieties as well.

We offer good Tubers of the following varieties

Aurore. (Peony.) Considered by many who have seen this variety, for the first time exhibited this last fall, as the finest in this class in the autumn tints. The flowers are very large in size, produced on long, stiff stems well above the foliage; in color a deep rich orange. \$2 each, \$20 per doz.

Ayesha. (Decorative.) Particularly effective on account of its very large perfectly formed flowers, soft pure yellow in color, borne on long stems, early and free. The best yellow of this type. 75 cts. each, \$7.50 per doz.

California. (Peony Decorative.) The early flowers are full to the center, with broad petals that are somewhat pointed and long, like the true Decorative. As the season advances the flowers show the beautiful golden yellow center, so characteristic of the Peony-flowered type. In color it is a beautiful clear rich deep yellow, which makes it without exception one of the very finest yellow Dahlias to date. \$1 each, \$10 per doz.

Cardinal. (Peony.) A very large flower that early in the season comes nearly full to the center and of a gorgeous maroon-purple. The stems are unusually good, being long and very strong, producing the flowers well above the foliage. The best of its color. \$1 each, \$10 per doz.

Etendard de Lyon. (Cactus.) This variety differs somewhat in form from other Cactus Dahlias offered, in that the flowers are huge in size, the petals broad but delightfully waved. It is best described as a giant hybrid Cactus. The flowers are borne on strong stems, gigantic in size, and of a rich carmine-rose or royal purple, with a brilliant suffusion difficult to describe. 75 cts. each, \$7.50 per doz.

Frans Ludwig. (Decorative.) Extra-fine lavender-pink. A first class, Haarlem, 1918. This variety is a seedling of the Decorative Dahlia, Princess Juliana, and is of exceptional lasting quality when cut. \$1 each, \$10 per doz.

Insulinda. (Peony Decorative.) A variety of the new Peony-Decorative type, chiefly admired on account of its beautiful bronzy maroon color. A very vigorous grower and a free bloomer. 75 cts. each, \$7.50 per doz.

Kalif. (Hybrid Cactus.) Unquestionably the best scarlet Cactus to date. The flowers are gigantic in size and perfect in form. The intense scarlet flowers are borne freely on strong, stiff stems, well above the foliage. 75 cts. each, \$7.50 per doz.

King of the Autumn. (Decorative.) This new Dahlia was the center of interest at the Dahlia exhibitions this last fall. Its unique color, wonderful vigor, and perfect flowers caused everyone to stop and admire it in our trial grounds. The color is best described as a beautiful shade of burnt amber, tinged and shaded old-rose. \$1 each, \$10 per doz.

La Victoire. (Decorative.) The largest light yellow Decorative Dahlia we know of. Exceptionally beautiful and a great exhibition variety. \$1 each, \$10 per doz.

Mrs. Charles Breck. (Decorative.) A beautiful, free-flowering perfect Dahlia, color soft yellow, and perfect flowers caused everyone to stop and admire it in our trial grounds. The color is best described as a beautiful shade of burnt amber, tinged and shaded old-rose. \$1 each, \$10 per doz.

Mrs. Ferdinand Jeffries. (Cactus.) This variety is of the hybrid Cactus type. A rich velvety maroon in color. The petals are broad, curled, and twisted. The type of flowers is massive in size, similar to Kalif and equally as free a bloomer. \$1 each, \$10 per doz.

Mrs. Frylink. (Decorative.) Rich oriental-red. The large brilliantly colored flowers, carried erect on very long stems, have caused this variety to stand out conspicuously in our trials during the past two years. Its merits will cause it to become one of the most popular. 75 cts. each, \$7.50 per doz.

Mrs. Warnaar. (Cactus.) A "Garden Cactus" of superior quality and recommended as one of the finest cut-flower varieties in existence. The coloring is exquisite, being a delightful creamy white, overlaid with a charming shade of pink and of gigantic size. \$1 each, \$10 per doz.



Dahlia, King of the Autumn

Newport Dandy. (Peony.) A lilac-pink of the most delicate shade. The flower is very large, with its petals most inner petals curling and twisting over it. A large sized flower and very profuse blooming. \$1 each, \$10 per doz.

Pierrot. (Cactus.) A striking novelty of unique color. The refined flower is composed of very long, narrow, tubular petals, which are a deep amber color, usually showing white tips. A wonderful exhibition flower and a splendid garden variety. 75 cts. each, \$7.50 per doz.

Van Dyke. (Peony.) A Peony-flowered variety of English origin. The flower is very large, with its petals most artistically arranged. In color, a beautiful salmon shaded heliotrope. \$1 each, \$10 per doz.

Yellow King. (Hybrid Cactus.) A fine pure yellow, passing to a lighter shade at tips. The stems are long, stiff, and hold the flowers upright. Very large flowers. 75 cts. each, \$7.50 per doz.

SELECT EXHIBITION CACTUS DAHLIAS

Introductions 1914-1915-1916

The Cactus Dahlia is by far the most popular of all the Dahlia family, but in order to secure the best results, care should be taken to select the varieties which are the most suitable for the various purposes for which Dahlias are grown. It will be found that some of the finest exhibition varieties, owing to having pendent flower-stems, are quite useless for garden decoration, although for producing specimen blooms they may be magnificent. On the other hand, there are plenty of sorts which flower freely and have stout stems, and make splendid garden plants.

The following varieties are the introductions of England's most famous Dahlia-grower, who in twelve years captured over 400 prizes, including Challenge Cups, Gold and Silver Medals.

We are pleased to be able to offer dormant roots of the following varieties of Dahlias this year. We urge our patrons to place their orders as early in the season as possible. We will furnish Roots on all the following varieties:

A. R. PERRY. This rare English variety was very much admired at our trials. The beautiful old-rose tone of the flower, with suffusions of old gold, makes it a very desirable addition to the refined incurved Cactus types of Dahlias. **75 cts. each, \$7.50 per doz.**

CAMBRIAN. Clear salmon lightening to yellow at the tips, the yellow being sufficiently pronounced as almost to warrant its classification as a tipped fancy variety. Form irregularly incurved, the back florets turning abruptly across the face of the flower. **50 cts. each, \$5 per doz.**

DOROTHY HAWES. A flower of wonderful size and marvelous depth as well. Exquisitely incurved, of a striking clear rosy purple color. **50 cts. each, \$5 per doz.**

EDITH CARTER. Not a new variety, but highly meritorious on account of its unique coloring. The general color is a bright sunny yellow which is exquisitely striped with carmine. A free bloomer. **75 cts. each, \$7.50 per doz.**

FEARLESS. One of the largest Cactus Dahlias in our list of rare kinds. The florets are very long, slightly incurved, and as narrow as needles, the flower exceeding in width almost every other variety. The color is a bright orange-scarlet throughout. **75 cts. each, \$7.50 per doz.**

GOLDEN WAVE. Of the many yellows, Golden Wave is one that, while introduced in Europe in 1913, has still remained in the front rank of exhibition yellows. **50 cts. each, \$5 per doz.**

GERALDINE EDWARDS. A very neat and prettily formed Cactus Dahlia, with pointed and evenly incurved florets. The color is a pale lavender, shading to creamy yellow at the base. **50 cts. each, \$5 per doz.**

HERBERT RABY. Another giant, the flowers being among the largest we exhibited this autumn, and in our opinion one of our best certified varieties in every respect. The florets are narrow, tubular, and prettily arranged, often not only incurving, but also twisting like a spinning-wheel. Habit particularly good, the plants standing erect, and having stout, wiry flower-stems. Color purplish crimson throughout. **50 cts. each, \$5 per doz.**

HIBERNIA. A very free-flowering, stiff-stemmed variety. Flowers medium-sized, neat, compact and of incurved form. Color primrose-yellow in center and at base of younger florets, but deepening to a bronzy shade on the older ones. This will be proved a capital variety for any purpose, being a useful exhibition flower if thinned, and equally good for garden if left natural. **75 cts. each, \$7.50 per doz.**

JOHN RIDING. For exhibition this is one of the finest introductions, its exceptional size, perfect form, great depth, and deep rich crimson color placing it in the front rank. **50 cts. each, \$5 per doz.**

MARGUERITE BOUCHON. Magnificent shade of brilliant, yet soft, rose, with a very large white center. The pointed petals have well-defined white tips which give the flower a distinct and charming appearance. **75 cts. each, \$7.50 per doz.**

MARGUERITE PHILLIPS. A flower of marvelous beauty, unequalled by any variety we have yet raised. The blooms are perfectly globular in shape, the pure white florets incurving, twisting, and interlacing, till they resemble an incurved Japanese chrysanthemum. The habit is, unfortunately, not good, the plants being robust as regards growth, but the flowers have pendent stems. **50c. each, \$5 per doz.**

MRS. HENRY RANDLE. A model Dahlia, the flowers being carried straight up, well clear of any foliage. The blooms are of good size and prettily incurved in form. Of a pale cream, quickly changing to a lovely rosy tint. **50 cts. each, \$5 per doz.**

SEARCHLIGHT. This might be best described as a yellow form of the popular Cactus variety, Miss Stredwick. The flowers are large and beautifully incurved in form; the florets are narrow throughout their length. **75 cts. each, \$7.50 per doz.**

W. E. PETERS. Clear crimson-scarlet throughout. This variety will rank as one of the leading exhibition varieties of the day. The blooms are composed of a great number of narrow florets, all of which are so incurved as to completely meet in the center, as the flowers fully develop. Stems long. Plants flower freely and every flower is good. **75 cts. each, \$7.50 per doz.**



Cactus Dahlia, Golden Wave



Cactus Dahlia, Countess of Lonsdale

TEN SELECT CACTUS DAHLIAS

The following list of Cactus Dahlias we can furnish in field-grown roots. This is a selection made with a view to supplying the amateur with an assortment of Cactus Dahlias which may be depended upon for an early and continuous display in the garden and at the same time an abundance of flowers for cutting.

ALIGHT. Large flowers of a beautiful orange-scarlet. Petals are long and very narrow, being moderately incurved. A highly recommended variety. **35 cts. each, \$3.50 per doz.**

COUNTRESS OF LONSDALE. A pleasing blending of salmon-pink and amber; an early and profuse bloomer under any conditions.

A Dahlia that is perhaps the most widely known of any in our catalogue. **35 cts. each, \$3.50 per doz.**

COLUMBIA. Vermilion, tipped and striped with white. Long, narrow, star-like petals. A fine fancy variety.

ELLA KRAMER. Rose-pink with much brighter center; fine form.

FRED COBBOLD. A very fine, free-blooming scarlet; color pure flaming scarlet. Considered by everyone as the standard variety for garden decoration and cutting.

ICEBERG. A very fine white; free-flowering and quite continuous.

J. H. JACKSON. The largest and the finest of the rich velvety maroons. This is the only distinct shade of maroon offered in this list and, without doubt, the best of its color.

KRIEMHILDE. The color is a delicate flesh-pink, shading to a deep rose-pink. In point of popularity this Dahlia ranks only second to Countess of Lonsdale and is a good companion. Should be in every select standard list.

MRS. DE LUCA. Golden yellow, tipped with orange; a most effective combination of coloring.

PRINCE OF YELLOWS. Very large, with broad petals, which are fringed at the tips; color a rich canary-yellow.

Price, any of the above, except where noted, 25 cts. each, \$2.50 per doz., \$18 per 100

SPECIAL OFFER COLLECTION

1 each, 5 varieties, 5 roots \$1 00
6 each, 5 varieties, 30 roots 5 00

The varieties in this offer are selected by us

CHOICE DOUBLE SHOW DAHLIAS

A. D. LIVONI. A splendid clear pink, beautifully quilled. The form of the flower is everything to be desired; a continuous bloomer.

ARABELLA. Light sulphur-yellow, shaded peach-blossom at the edges; a fine free-flowering variety.

GOLDEN AGE. Very large yellow, shaded amber. This variety is a wonderful bloomer, producing its large, well-shaped flowers on erect, stout stems, well above the foliage.

LUCY FAWCETT. Pale yellow, striped deep pink. One of the best of the fancy Show Dahlias. Very large.

MME. MAUREAU. This may best be described as an improvement in size, coloring, and in earliness on the popular variety Susan. The color is a delicate shell-pink. **50 cts. each, \$5 per doz.**

MERLIN. Intense orange-scarlet. The plant is a strong, vigorous grower, with dark glossy foliage. An early bloomer.

NORMA. A Dahlia that should be grown by all flower-lovers. Blooms are large, perfectly quilled, and of a most exquisite shade of live, bright orange. The flowers are produced in remarkable profusion.

PRIMROSE DAME. Very large, full, rounded form. Beautiful soft shade of lemon-yellow. The flowers are borne on long, straight stems, making it very desirable for cutting.

ROBERT BROOMFIELD. A splendid, well-formed and free-flowering white variety. The habit of plant is excellent, bearing blooms early and regularly throughout the season.

PROFESSOR MANSFIELD. Flowers very large, golden yellow, tipped white, sometimes golden yellow, tipped red, and other times shaded to red tipped white; one of the largest.

Strong roots of the above varieties, except where noted, 25 cts. each, \$2.50 per doz., \$18 per 100

POMPON DAHLIAS

Amber Queen. Rich, clear amber, shaded apricot.

Catharine. The finest pure yellow.

Darkest of All. Very deep maroon. The finest dark Pompon.

Little Belle. Beautiful lilac-pink.

Madeline. Pale primrose, edged with rose-purple.

Pride. Deep coral-red; handsome flowers on long stems.

San Toy. White, very heavily tipped carmine.

Snowclad. Finest pure white Pompon, borne profusely on long stems. **25 cts. each, \$2.50 per doz.**



Show Dahlia, Robert Broomfield

EIGHT GRAND DECORATIVE DAHLIAS

The following eight varieties have proved from our trials to be of unusual merit.

Delice. The finest pink Decorative Dahlia. Color suffused with lavender-pink; perfect in form and habit, producing flowers on long, stiff stems; invaluable for cutting. This variety should appeal to every lover of flowers on account of the delicate color. **35 cts. each, \$3.50 per doz.**

De Palma. This beautiful, rare, decorative Dahlia, which we first offered in 1917, has proved a great favorite. A strong grower and free bloomer. The flowers are fine in form and are borne on strong, stiff stems, well above the foliage. The color is a beautiful watermelon-pink. The previous demand for this variety was so great that we were only able to offer green plants. We now offer roots at **75 cts. each, \$7.50 per doz.**

D. M. Moore. In offering this we have one of the best nearly black varieties to date. It is a rich, deep, velvety Victoria-lake, which is a shade deeper than deep maroon, the nearest approach to black to our knowledge. A mammoth flower produced in profusion on long, stiff stems. **50 cts. each, \$5 per doz.**

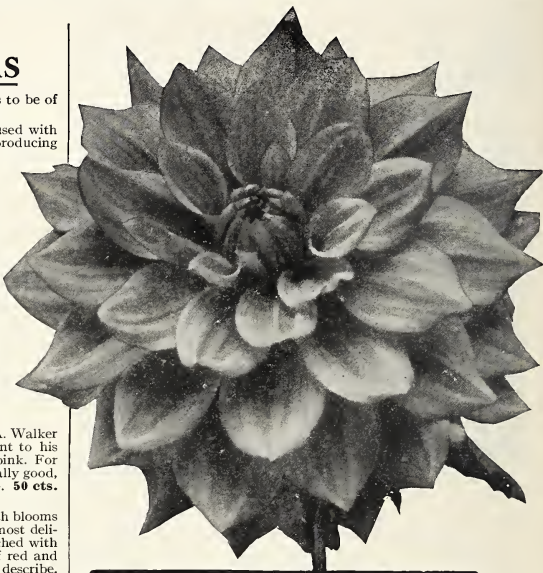
Eveque. An elegant bright purplish violet flower, always held erect. Excellent for garden decoration or cutting. **75 cts. each, \$7.50 per doz.**

Frank A. Walker. Expressly named for Mr. Frank A. Walker of Stoneham, Mass., in compliment to his intense love of Dahlias. A charming shade of deep lavender-pink. For garden decoration or for cut-flowers this variety is exceptionally good, having long stems and producing flowers in great abundance. **50 cts. each, \$5 per doz.**

Hortulanus Fiet. Another giant-flowered variety with blooms over 8 inches in diameter, of the most delicate shade of shrimp-pink, the tip of each petal barely touched with gold. The entire flower has a suffusion of delicate tints of red and yellow, which gives a glow yet a softness of color difficult to describe. **75 cts. each, \$7.50 per doz.**

Mina Burgle. A variety which originated in California. It is of perfect Decorative type and of a glowing crimson color. A variety of wonderful brilliance. Its large size and free-blooming qualities make it a desirable addition. **50c. each, \$5 per doz.**

Princess Juliana. A wonderful white Decorative Dahlia. Plants covered with blooms from early until late; the very best for decorative work. **50c. each, \$5 per doz.**



Decorative Dahlia, Hortulanus Fiet

STANDARD DECORATIVES

The following varieties are a very select list of good Decorative Dahlias for garden culture. They are all free bloomers and excellent for cutting.

Clifford W. Bruton. Considered by many as being the best canary-yellow Decorative Dahlia yet introduced. It is an early and continuous bloomer of fine form. The flowers are borne well above the foliage, making it excellent for garden decoration and cutting.

Cuban Giant. Color dark, glowing crimson, shaded maroon; of immense size—6 to 7 inches in diameter; full, rounded form, and free bloomer. **35 cts. each, \$3.50 per doz.**

Elsie Davidson. A beautiful deep golden yellow of gigantic size. A very much deeper color than that found in Clifford W. Bruton.

Jack Rose. One of the most popular of florists' cut-flower varieties. In color a rich shade of crimson similar to the rose after which it was named. Very fine for exhibition and as a cut-flower.

Jeanne Charmet. The flowers measure from 7 to 10 inches in diameter, and are borne on stiff, wiry stems, frequently 18 to 24 inches long. The color is a most exquisite shade of lilac-pink, shading toward white at the center. **35 cts. each, \$3.50 per doz.**

Lyndhurst. A very bright scarlet and an early and free bloomer. The flowers are large, perfectly full-centered, and are borne on long, stout stems well above the foliage.

Mme. Van den Dael. A grand Dahlia of highest Decorative type. Flowers are large and of fine form, produced upon exceptionally good stems, well above the foliage. The color is white, deeply edged live silvery pink. **35 cts. each, \$3.50 per doz.**

Mimos. One of the finest Dahlias to date. Flowers are large and exceedingly beautiful, borne on long, graceful stems, of wiry stiffness. The color is an intense velvety maroon, almost black.

Purple Manitou. Enormous flowers of a rich, clear, deep purple. The finest purple Decorative Dahlia. **35 cts. each, \$3.50 per doz.**

Souv. de Gustave Doazon. This variety is a good comparison to the sunflower. It is the largest Dahlia in existence, and the color is a pleasing shade of red. The flowers are full to the center, and often measure 9 inches and over in diameter, and can be forced to measure 12 inches. It should be in every garden.

Price, of all above, except where noted, **25c. each, \$2.50 per doz.**



Decorative Dahlia, Souvenir de Gustave Doazon

RARE PEONY-FLOWERED DAHLIAS

The Peony-flowered Dahlias originated in Holland and have become very popular. The flowers are very large, and resemble somewhat the semi-double peony in form. The petals are very peculiarly twisted and incurved, and the flowers are produced on extra-long stems, making them invaluable for cutting or garden decoration.

Attraction

Large, elegant flowers of a clear lilac-rose color. A flower of wonderful substance and size and will undoubtedly be an attraction at all Dahlia shows this coming fall. This variety has been certificated at the European Dahlia shows this past fall. **75 cts. each, \$7.50 per doz.**

Berch von Heemstede

Primrose-yellow, with rich golden sheen. Plants are of vigorous growth. The flowers of medium size are freely produced on strong stems well above the foliage. An excellent variety for cutting and garden decoration. **75 cts. each, \$7.50 per doz.**

Bianca

This variety is of the Peony-Cactus type. A strong, vigorous grower and free bloomer. The flowers are carried erect on long, strong stems. The only true lavender Peony-flowered Dahlia, which will undoubtedly become very popular. **75 cts. each, \$7.50 per doz.**

Diernant van Bystein

Flowers of perfect Peony form, large and of a pleasing blending of color—delicate silvery mauve-pink, with brighter center, difficult to describe. A splendid Dahlia in every way. **75 cts. each, \$7.50 per doz.**

Mme. Coissard

A very artistic and graceful variety. The flowers are large and are composed of incurving shell-like petals of French purple or carmine-crimson, freely marked, shaded, and suffused with white. **75 cts. each, \$7.50 per doz.**



Peony-flowered
Dahlia, Attraction

Princess Mary

Vivid light pink, margined blush. One of the most distinct pink varieties. Carries a mass of large flowers on strong stems. An excellent variety for exhibition or garden decoration. **75 cts. each, \$7.50 per doz.**

Select Peony-flowered Dahlias of Recent Introduction

The following varieties have been selected from a list of twenty-five varieties and are in our opinion the best ten. We have endeavored to offer only the most distinct sorts. **We offer strong roots of the following ten varieties.**

BERTHA VON SUTTNER. Very fine acquisition, obtained by hybridization with the variety H. Hornsveld. The flowers are of the same fine form as the latter, but are carried erect. Salmon-pink, shaded yellow; of compact, sturdy growth and very floriferous, the flowers often measuring 8 inches in diameter. **35 cts. each, \$3.50 per doz.**

CAESAR. A splendid standard canary-yellow. The flowers are borne well above the foliage. A free and continuous bloomer. **50 cts. each, \$5 per doz.**

CHANTENAY. In color similar to the well-known Chantenay rose. The blooms are held erect on good stiff stalks. On account of this shade of yellow, this variety is always greatly admired in our trials. **50 cts. each, \$5 per doz.**

DIANA. A beautiful deep crimson-violet. A flower of wonderful size, finely shaped, and borne on long, stiff stems, well above the foliage. **50 cts. each, \$5 per doz.**

DR. PEARY. One of the darkest and a brilliant reddish mahogany. **50 cts. each, \$5 per doz.**

DUKE HENRY. A rich, brilliant, deep crimson color. The flowers are of large size. Effective for garden decoration on account of its color, and fine for cutting. **35 cts. each, \$3.50 per doz.**

GEISHA. The showiest and most attractive of this type yet introduced; of strong growth, with the rich-colored flowers, which are frequently over 8 inches in diameter, standing well above the foliage. These are original in form, consisting of peculiarly twisted and curled petals, of an effective and rich combination of scarlet and gold, the center being yellow, which becomes suffused with and deepens to scarlet at the center of the petals, shading off lighter at the edges. **30 cts. each, \$5 per doz.**

GERMANIA. Bright glowing crimson-scarlet. A flower of very artistic appearance, the petals elegantly curled and twisted. The habit of the plant is excellent and the blooms are borne perfectly erect, well above the foliage. **35 cts. each, \$3.50 per doz.**

H. J. LOVINK. A flower of exceptional color which is both distinct and unusual in this class of Dahlias, being a fine pure white, shaded with lilac. The habit is good and form perfect, producing its large flowers on exceedingly long stems, well above the foliage. **50 cts. each, \$5 per doz.**

QUEEN WILHELMINA. Immense fluffy flowers of pure white, with yellow center; makes a handsome flower for decoration. **35 cts. each, \$3.50 per doz.**

Giant Single, Century and Collarette Dahlias

CHOICE OLD-FASHIONED SINGLE DAHLIAS

- Adventure.** A most pleasing shade of pinkish crimson, striped and splashed maroon.
Alva. One of the most beautiful of the striped varieties; yellow, speckled and striped pink.
Attraction. Brick-red, occasionally suffused yellow, yellow ring at the center; very large.
Empress. A lovely shade of rose-pink; large and beautiful.
St. George. A pretty primrose-yellow.
Wildfire. Brilliant poppy-scarlet of large size. A plant in full bloom is a gorgeous sight.
Price, any of the above, 25 cts. each, \$2.50 per doz.

CENTURY DAHLIAS

These magnificent Dahlias are similar to the Single Dahlias listed above except that the Century varieties are larger in size. They bloom profusely and continuously throughout the season; flowers frequently measure 6 inches across on stems 3 feet tall, and when cut keep in good condition for many days.

- CRIMSON CENTURY.** Deep, glowing crimson, shaded darker and tipped rose with rose disk.
ECKFORD CENTURY. Color pure white, spotted pink and penciled crimson. Not only a distinct variety, but an entirely new type, and bound to give satisfaction.
MAROON CENTURY. Rich maroon, shaded plum; large and velvety. A strong grower, producing a well-shaped flower on long stems above the foliage.
NEWPORT WINNER. A new giant crimson-red that we can highly recommend.
ROSE-PINK CENTURY. Of a beautiful rose-pink color. The plant is an exceptionally free bloomer, producing long stems.
SIREN CENTURY. Crushed strawberry, crimson and yellow.



Century Dahlia, Rose-Pink Century

- VICTORY CENTURY.** A brilliant wine-crimson; a champion variety.
WHITE CENTURY. The flowers are of immense size, 6 to 7 inches in diameter, of beautiful snow-white color.
YELLOW CENTURY. The plant is tall, producing flowers well above the foliage. Bright canary-yellow.
20th CENTURY. Color intense rosy crimson, with white tips and white disk around the yellow center. As the season advances the dark-colored zone becomes lighter.

Price, any of the above varieties, 25 cts. each, \$2.50 per doz.

COLLARETTE DAHLIAS

French specialists have given us many improved forms of this type, some with very large flowers and delightful color combinations, from which we have selected the varieties here offered. These unique flowers were exhibited quite extensively last year in foreign countries, meeting with great approval, and we predict the same success here. The flowers are single, with a row of petals around the center known as the "Collar," which is usually different in color from the rest of the flower. We have, for the first time, been able to offer roots of the following varieties. All orders will be filled in roots until stock becomes exhausted, after which we will supply plants in May. We will notify our patrons if this is necessary.

- ACHIEVEMENT.** The largest and finest of the Collarette Dahlias. A clear, rich, velvety maroon, with a pure white collarette. Very free-flowering. 50 cts. each, \$5 per doz.
DIRECTOR RENE GERARD. Beautiful, violet-purple, shaded and tipped white, with white collarette. Exceptionally large flowers, produced in great profusion. 35 cts. each, \$3.50 per doz.
EXPOSITION DE LYON. A very gay flower of a bright garnet color with clear yellow collar petals. 30 cts. each, \$3 per doz.
MAURICE RIVOIRE. An attractive flower with petals of ox-blood-red, with deeper stripe down the center; pure white, fringed collar. 30 cts. each, \$3 per doz.
METEOR. Crimson-maroon, very slightly edged old-gold, with cream-white collarette. 35 cts. each, \$3.50 per doz.
PRESIDENT VIGOR. Reddish carmine, with white collarette. The first of the Collarette Dahlias. 25 cts. each, \$2.50 per doz.
SOUVENIR DE CHABANNE. Brilliant, deep scarlet; collar yellow with white tips. Very unique and striking. 35 cts. each, \$3.50 per doz.



Collarette Dahlia, Maurice Rivoire



Japanese Iris

JAPANESE AND GARDEN IRIS

The Japanese and Garden Irises are perfectly hardy, and flower in greatest profusion.

The Garden Iris usually flower in June and the Japanese in July, and attain their greatest perfection if grown in moist soil, or if plentifully supplied with water while growing and flowering. Our stock is *American-grown*, and no effort is spared to keep it true to name and color. They are thoroughly acclimated and hardy.

The varieties offered below have been chosen from a list of the finest Japanese and Garden sorts, which were tested out, and only the best and most distinct varieties grown. We offer below six of the best "double" or six-petal varieties, and two of the "single," or three-petal sorts of Japanese Iris. Both are equally valuable as cut-flowers, for which purpose they should be cut in a bud state, permitting the blooms to expand after being placed in water. Our selection of Garden Iris consists of the best new as well as good standard varieties.

JAPANESE IRIS (*Iris Kaempferi*)

Apollo. Single. White, pink center.

Distinction. Single. Light lavender-pink; bright yellow blotches at base of petals; distinct and fine.

Gold Boud. Double. Pure white; one of the best.

Mt. Hood. Double. Light blue, shaded darker, bright orange center; a very attractive variety.

25 cts. each, \$2.50 per doz., \$20 per 100

Oriole. Double. Rich plum, shading to deep plum toward the center, brightly marked yellow.

Pyramid. Double. Lilac-blue, veined white in center of each petal.

Templeton. Double. Light violet shade, mottled reddish pink and white; often triple and exceedingly fine form.

Victor. Double. White, veined violet-purple, violet-purple center.

GARDEN IRIS (*Flag Iris, or Fleur de Lis*)

Five New Varieties

The following five varieties are of the latest introduction and are not only new in color but of better form.

King of Iris. A very beautiful novelty. The flowers are perfect in form; the standards are of a clear lemon yellow, falls deep satiny brown with a broad border of golden yellow.

Loreley. The contrast of coloring between the falls and standards of this variety is very beautiful. Falls are deep blue, more or less veined with creamy white and bordered sulphur-yellow; the standards are a pale sulphur-yellow.

Lohengrin. Foliage and flowers of gigantic size, with petals 2 inches wide. Standards and falls of a uniform shade of violet-mauve.

Nibelungen. Standards fawn-yellow, falls deep violet-purple, with fawn margin; distinct and very pretty.

Rhein Nix. Standards pure white; falls deep violet-blue, with white margin. A very tall grower and of splendid form. A very charming and rather scarce variety.

Price, any of the above, 50 cts. each, \$5 per doz.
Set, 1 each of 5 varieties, \$2

Select Standard Varieties

ALMONEA ALBA. A very pretty white variety with pale blue veins.

CANARY BIRD. Very lovely. Standards and falls pale yellow.

FLORENTINA ALBA. An excellent variety for cutting, blooms early.

Waxy white, tinged lilac. A fine variety for massing with blues.

The orris-root variety of commerce.

HONORABILIS. Standards golden; falls rich mahogany-brown.

KHARPUT. Standards violet; falls velvety-violet-purple. Early

flowering; very large flower; fragrant.

MME. CHEREAU. Pure white, edged with azure-blue; falls white,

frilled clear blue. One of the most beautiful varieties.

ODORATISSIMA. Pale blue.

PALLIDA DALMATICA. Considered by many to be one of the

finest of the *Fleur de Lis* type. Of strong, vigorous habit, growing

in good soils as high as 4 feet. The flowers are exceptionally large

and quite fragrant, standards lavender; falls lavender, shaded blue,

a splendid variety for mass planting. 30 cts. each, \$3 per doz.,

\$20 per 100.

PURPLE KING. Falls purple; very effective variety.

RUBENS. Brown; very effective in the garden.

Price, any of the above varieties, except where noted,
20 cts. each, \$2 per doz., \$15 per 100



HERBACEOUS PEONIES

Peonies rank among the most beautiful of all hardy perennials, and no garden is complete without their charming influence. The popular interest in many parts of the world has brought a very gratifying improvement in the Peony. In the newer sorts gigantic flowers have been produced, reaching, in many instances, the large size of 7 to 9 inches in diameter and 5 to 6 inches in depth, with strong, stiff stems $2\frac{1}{2}$ to 3 feet long. The permanency of Peonies should especially recommend them to your favor; for, once planted in suitable soil they will continue to grow better and larger each year. A situation well open to the sun suits them best but they thrive in partial shade also.

CULTURE.—The culture of Peonies is quite simple. They require a good, deep, rich soil and an abundant supply of water during the growing season. When enriching the ground, the use of too much fresh manure near the roots should be avoided. The main point to observe is, while the ground should be well spaded and cultivated, **not to plant the roots too deep.** The roots should be planted so that the eyes are barely covered (about 1 to 2 inches). Too deep planting is the cause of shy flowering.

We offer two sizes of the roots: Three-year-old clumps which have been grown this period in our nursery, and divisions from these clumps. **These divisions are strong roots with three or more eyes and are certain to do well.**

BARONESS SCHROEDER. (Kelway.) Considered by many Peony-lovers to be one of the finest Peonies in existence. You may pick three flowers and one of them will have a delicate, faint, lingering reflex of gold in the center, the next may have the center suffused with heliotrope, and the next a pinkish glow, the whole flower giving the impression of a huge pyramid of baby pink fading away to purest white. **Strong divisions \$2 each.**

DUC DE WELLINGTON. (Calot.) Very large, well-formed, sulphur-white blooms; habit ideal; stems very firm and long. Strong grower; very fragrant. **3-yr.-old clumps \$1.50 each, strong divisions 50 cts. each.**

DUCHESSE D'ORLEANS. (Guerin.) Medium to large; guard petals delicate pink, center shaded salmon, with silver reflex. Extra-strong grower; fragrant and free bloomer. **3-yr.-old clumps \$1.50 each, strong divisions 50 cts. each.**

EDULIS SUPERBA. (Lemon.) This is the famous Decoration Day Peony. Color a beautiful bright, clear pink, with silver reflex. **3-yr.-old clumps \$1.50 each, strong divisions 50 cts. each.**

FESTIVA MAXIMA. (Mieliez.) In some respects this is yet a peerless flower—"Queen of the Whites." Though introduced more than fifty years ago, it is almost impossible to supply the demand. It is an immense white flower, with drops of carmine sprinkled in the center. An early bloomer and a good keeper. **Strong divisions 50 cts. each.**

GRANDIFLORA ROSEA. Full, globular, rose type. Guard petals light salmon-rod; center petals lighter, shaded salmon. Fragrant, tall, strong grower. **3-yr.-old clumps, \$1.50 each, strong divisions 50 cts. each.**

LA TULIPE. (Calot.) Very large, flat, semi-rose type. Lilac-white, outer guard petals striped crimson. Tall grower and free bloomer. **3-yr.-old clumps \$1.50 each, strong divisions 50 cts. each.**

L'INDISPENSABLE. Lilac-white, shading to pale violet-rose toward the center. A variety of very delicate odor and a free bloomer as well as an excellent grower. Flowers mid-season to late. **3-yr.-old clumps \$2.25 each, strong divisions 75 cts. each.**

LOUIS VAN HOUTTE. (Calot.) Rich, glowing purplish-pink, tipped with silver; very brilliant coloring; fragrant; medium-large flower. **3-yr.-old clumps \$2.25 each, strong divisions 75 cts. each.**

MADAME CALOT. (Calot.) A wonderfully free-blooming white Peony, the flowers overlaid with delicate blush. Excellent for cut-flowers. **3-yr.-old clumps \$1.50 each, strong divisions 50 cts. each.**

MME. CHAUMY. (Calot.) Pale lilac-rose, center slightly darker; medium size; very compact rose type. Free bloomer. **3-yr.-old clumps \$1.50 each, strong divisions 50 cts. each.**

MADAME DE VERNEVILLE. Guard petals sulphur-white, center delicate flesh. Flowers very double and compact, imbricated, borne on long stems. A very desirable variety. **3-yr.-old clumps \$2.25 each, strong divisions 75 cts. each.**

MAGNIFICA. A very pretty shade of pale pink. Flowers medium to large; free bloomer. **3-yr.-old clumps \$1.50 each, strong divisions 50 cts. each.**

MARIE LEMOINE. (Calot.) Large, rather compact, rose type. Pure white, cream-white center, with occasional carmine tip. Very fragrant; of medium height and a free bloomer. **3-yr.-old clumps \$2.25 each, strong divisions 75 cts. each.**

MODELE DE PERFECTION. (Crousse.) Rather large, compact rose type. Guards and collar light violet-rose with wide, high center, petals shaded darker. **3-yr.-old clumps \$3 each, strong divisions \$1 each.**

MONS. JULES ELIE. (Crousse.) One of the finest varieties in our list. The color is an ideal glossy lilac-pink, shading to deeper rose at the base of the entire flower, overlaid with a sheen of silvery rose that is extremely beautiful in the sunlight. **3-yr.-old clumps \$3 each, strong divisions \$1 each.**

RUBRA TRIUMPHANS. Large, loose, globular semi-double flowers of very dark crimson. Medium height; strong, healthy grower; early mid-season. **3-yr.-old clumps, \$1.50 each, strong divisions 50 cts. each.**



A border planted with Hardy Phlox, when established makes a beautiful display

HARDY PHLOX

The Hardy Phloxes are, without doubt, the most important of all hardy perennials, and are now to be found in nearly every garden. They succeed in almost any kind of soil or position, and flower from early summer until late in the fall. They also improve from year to year, and contain a range of brilliant colors not found in any other hardy plant. We have a very fine collection of them.

CULTURE.—Hardy Phlox may be planted in spring or fall; a mulch of old manure thrown around the roots will be of benefit to the plants. Phlox should be set out 18 inches apart, and if kept well watered will produce both individual blossoms and heads of bloom far larger than otherwise, and amply repay the extra trouble. To procure best effects, plants should be massed in from six to twelve clumps of each variety.

Six Hardy Phloxes of Special Merit

It is difficult, out of the great number of varieties of Hardy Phlox, for the amateur who desires a limited number of varieties, always to get the best. While all the varieties listed are entitled to a place in a good collection, the following six are in every way among the best.

Price of any of the varieties listed below, 30 cts. each, \$3 per doz., \$22 per 100

Elizabeth Campbell. Very bright salmon-pink, with lighter shadings and a dark crimson eye. An entirely new and much-wanted shade in Phlox.

Europa. A white variety with very decided crimson-carmine eye; the individual flowers, as well as the trusses, are very large; entirely distinct.

Grideur. Ground color a soft mauve-rose, heavily suffused and overlaid with a lively deep shade of cerise, giving the whole a beautiful mottled appearance.

Thor. A most beautiful and lively deep shade of salmon-pink suffused and overlaid with a scarlet glow and a light, almost white, halo around its aniline-red eye. This variety will undoubtedly hold the same place among deep salmon colors that Elizabeth Campbell holds among the light salmon-pinks.

Viking. A splendid new variety and one of the latest to flower, producing much-branched pyramidal heads of bloom of a pleasing shade of soft salmon rose.

W. C. Egan. One of the best and largest-flowering varieties in our collection. Panicles of immense size and of a delicate pleasing shade of lilac, which is illuminated by a large, bright solferino-red eye.

SPECIAL OFFER: { 1 each of the above 6 varieties.....\$1.25
COLLECTION... { 3 each of the above 6 varieties.....\$3.50

Eleven Selected Standard Phloxes

Price of any of the varieties listed below, 25 cts. each, \$2.50 per doz., \$15 per 100

Antonia's Mercie. Light ground color, one-half of each petal suffused bluish-lilac.

Champs Elysees. Bright rosy magenta. A very effective variety.

B. Comte. Medium. French purple, with crimson-carmine shadings.

Baron Van Dedem. Brilliant cochineal-red with salmon shadings.

Frau Anton Buchner. A splendid white variety.

Mme. Paul Dutrie. Tall. Delicate lilac-rose, reminding one of some of the beautiful soft pink orchids.

Obergartner Wittig. Medium. Bright magenta, with crimson-carmine eye; large flower and truss. One of the best.

Rosenberg. Bright reddish violet, with blood-red eye, large truss, and individual eye as large as a silver dollar.

R. P. Struthers. Tall. Rosy carmine with a claret-red eye.

Rynstrom. An improved form of the popular variety, Pantheon; fine for massing; of a Paul Neyron rose color.

Von Lassburg. Medium. The purest white in cultivation; individual flowers larger than in any other white.

Early-flowering Hardy Phlox (*Phlox suffruticosa*)

Miss Lingard. A grand variety, which begins flowering after the middle of June and continues throughout the season. Extensively used for cut-flowers. 25 cts. each, \$2.50 per doz., \$15 per 100.

Phlox subulata (Moss or Mountain Pink)

25 cts. each, \$2.50 per doz., \$15 per 100

An early spring-flowering type, with pretty, moss-like, evergreen foliage which, during the flowering season, is hidden under the masses of bloom. An excellent plant for the rockery, the border, and invaluable for carpeting the ground or covering graves.

Alba. Pure white. **Lilacina.** Soft lilac. **Rosea.** Bright rose.

HYBRID TEA ROSES



Gruss an Teplitz Roses

the base of the plant, then cover the entire bed after the ground evergreen boughs, or corn stalks. The most serious insect pest Melrose listed on page 141 of our catalogue, as the best known

BETTY. When established it produces blooms of marvelous beauty, particularly so in the autumn. Large flowers of a glowing coppery rose color, suffused with gold.

DEAN HOLE. Silvery carmine with salmon shadings; large, full, of fine form and very fragrant. An excellent variety.

DUCHESSE OF WELLINGTON. As the flower develops it changes in color from a saffron-yellow to a deep coppery saffron-yellow. The flowers are fairly full, with petals of great substance. A very free-flowering and fragrant variety.

ETOILE DE FRANCE. A vivid crimson with darker shadings; very double, of good size and fragrant. One of the finest red varieties, succeeding equally well in all parts of the country.

GRUSS AN TEPLITZ. Of a rich scarlet, shading to a velvety crimson. A very free grower and in bloom all the time; succeeds well under the most ordinary conditions.

JONKHEER J. L. MOCK. Deep pink, with outer petals rose-white. Large flowers borne on long, stiff stems.

KAISERIN AUGUSTA VICTORIA. A soft pearly white, faintly tinted lemon in the center. Very fragrant, beautifully formed flowers on long, graceful stems.

KILLARNEY BRILLIANT. Sparkling cerise-pink in color, shading lighter at the base of petals. A strong, vigorous grower and free bloomer. A wonderful improvement over Killarney.

LOS ANGELES. The following is the originator's description, all of which we fully endorse: "Los Angeles is, by all odds, one of the finest Roses ever introduced. The growth is very vigorous, and produces a continuous succession of long-stemmed flowers of luminous, flame-pink, toned with coral and shaded with translucent gold at the base of the petals. In richness of fragrance it equals in intensity the finest Marechal Niel. The buds are long and pointed, and expand into a large flower, while the beauty of form and ever-increasing wealth of color is maintained from the bud until the last petal drops.

MME. EDOUARD HERRIOT. The buds are coral-red in color, shaded with yellow at the base; the medium-sized open flowers, medium double, are coral-red, shaded yellow and bright rosy scarlet, passing to shrimp-red. This variety was the winner of the gold cup offered by the London *Daily Mail* for the best new Rose exhibited at the International Horticultural Exhibition at London, England, in May, 1912. Also awarded the Gold Medal by the National Rose Society of England, 1913.

Our Roses are all American grown, two-year-old stock. They are budded or grafted, and while some planters prefer stock grown on their own roots on account of the liability of budded plants to throw up suckers, this will rarely occur if deep plantings are made, and if a wild shoot should appear, it is readily distinguished by the most casual observer, and should be removed close to the root. Budded plants are more vigorous, produce finer blooms, come to bearing sooner, and are equally as permanent and hardy as those on their own roots, and many of the choicest varieties do not succeed unless budded or grafted.

Culture and Hints on Growing. The best soil to grow Roses is good top soil with rotted cow-manure added. Dig out the bed to a depth of 2 feet or more, and, if drainage is imperfect, it must be provided for. Fill in with a mixture of soil and manure as above. It is best to make beds, if possible, in advance of planting, so as to allow time for settling. Beds may be made any size, but it is best to have them about 3½ by 5 feet, which enables you to pick the blooms without stepping on the beds. The ideal time to plant is just after severe frost has passed. Hybrid Teas should be set 18 inches apart; Hybrid Perpetuals 2 feet apart, and both 8 inches from the edge of the bed. They should be planted with the roots well spread out and placed about 9 inches below the surface of the ground, the soil made firm about them and liberally watered. Throughout the summer the surface soil should be cultivated weekly. If good cultivation, like the above, is given, watering will rarely be necessary.

Winter Protection. In this latitude the most satisfactory form of protection is to draw up a mound of soil from 8 to 10 inches high around the plant, and cover with any loose material, such as straw manure, that attacks Roses is the rose bug. We recommend the use of this remedy for this pest.

MME. CAROLINE TESTOUT. Large, globular flowers of bright satiny rose, with deeper center. Very free and fragrant, and one of the most popular and valuable bedding varieties.

MRS. AARON WARD. Splendidly formed full double flowers, equally attractive when full blown as in the bud state. Of distinct Indian yellow, shading lighter toward the edges. Under certain weather conditions the entire flower will sometimes come a yellow-tinted white, but it is a beautiful variety under all color variations.

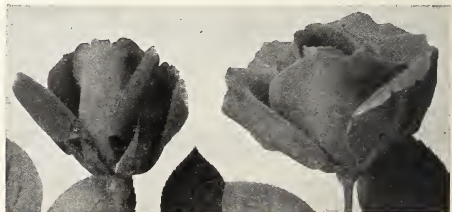
MRS. WAKEFIELD CHRISTIE-MILLER. The best pink bedding Rose, and especially for massing. Flowers are of a distinct and novel shape, the petals having wavy or crimped edges, resembling the peony. A free bloomer, the flowers remaining perfect on the bushes for a long time. A bright pink color with lighter shadings.

OPHELIA. Flowers erect on long, stiff stems, of perfect form, large size, and of a most pleasing delicate tint of salmon-flesh, shaded rose.

RADIANCE. A brilliant carmine-pink, with salmon-pink and yellow shadings at the base of the petals. A Rose that will withstand the most unfavorable hot summer weather.

RED RADIANCE. An excellent bedding Rose, possessing the same good qualities as the Variety Radiance, but in color a clear cerise-red.

WHITE KILLARNEY. Identical in every respect with the popular Killarney Rose, except in color, which is a pure white.



Los Angeles Roses

Price, any of the above varieties, strong field-grown plants, \$1 each, \$10 per doz., \$75 per 100

HARDY HYBRID PERPETUAL ROSES

Before the wonderful development of the Hybrid Tea Roses, the Hardy Hybrid Perpetual Rose was the most popular type for garden planting, and even now most of the varieties offered are grown by Rose-lovers in conjunction with the other sorts. The collection offered below will be found excellent.

In pruning Hybrid Perpetuals it is advisable to cut away all weak growth, and if quality of bloom is desired, cut back the strong canes to within 8 or 9 inches of the ground, but if quantity of bloom for garden effect is desired, leave these canes from 2 to 3 feet high, according to their strength.

FRAU KARL DRUSCHKI. Pure white in color, perfect in form, strong grower and remarkably free-flowering.

GENERAL JACQUEMINOT. One of the old favorites and probably the best known Rose in cultivation. Brilliant scarlet-crimson.

GEORGE ARENDS. (The Pink Frau Karl Druschki). A free bloomer, of a different pink variety, different in color from any other Rose.

MAGNA CHARTA. Strong, vigorous grower; bright pink suffused with carmine.

MRS. JOHN LAING. Very free-flowering; soft pink of beautiful form.

PAUL NEYRON. Perhaps the largest of all; dark rose in color.

SOLEIL d'OR (Golden Sun). A distinct type. A cross between Persian Yellow and a Hybrid Perpetual. Color varies from orange-yellow to reddish gold, shaded with nasturtium-red. Conical-shaped buds opening to large, full, flat-shaped flowers. Perfectly hardy and free-blooming.

ULRICH BRUNNER. A good strong grower with large, full flowers, of a bright cherry-red.

Any of the above, field-grown plants, \$1 each, \$10 per doz., \$75 per 100

HARDY CLIMBING AND RAMBLER ROSES

We offer on this page a selection of the best modern hardy Climbing and Rambler Roses. Climbing Roses require no pruning in the spring, except the cutting out of very old or dead wood, and the shortening of the laterals and long canes to make the growth conform to the space to be covered; but a severe pruning in July, directly after they have finished flowering, is beneficial. Cutting away at that time all old flowering wood will encourage a vigorous growth, which will give an abundance of flowers the following season.

AMERICAN PILLAR. A single-flowering variety of great beauty. The flowers are of large size—3 to 4 inches across—of a lovely shade of pink, with a clear white eye and cluster of yellow stamens, and are borne in immense bunches.

CLIMBING AMERICAN BEAUTY. One of the best Climbing Roses. It is a strong, healthy, vigorous grower, frequently making shoots from 10 to 12 feet long, with good-sized flowers for a Climbing Rose that blooms so freely. A pleasing rose-pink of splendid form and good substance.

DOROTHY PERKINS. Soft shell-pink, flowering profusely in large clusters; very fragrant and lasting; a splendid Rose in every way.

DR. W. VAN FLEET. A Rose which, on account of its dainty color and exquisitely shaped buds and flowers, has become a great favorite. The long, pointed buds are of a rich flesh-pink on stems 12 to 18 inches long. One of the very best of the climbing Roses. Splendid for cutting.

EXCELSA. A distinct variety in form, color, and habit. It is vigorous in growth, with dark glossy green foliage and the double flowers are produced in large trusses. Almost every eye on the shoot produces clusters of flowers. They are intense crimson-maroon in color, with the tips of the petals tinged scarlet.

SILVER MOON. Different from all other Roses, with beautiful, semi-double flowers $4\frac{1}{2}$ inches and over in diameter. Pure white in color, with petals of great substance, beautifully cupped, forming a clematis-like flower. The large bunch of yellow stamens in the center adds to its attractiveness.

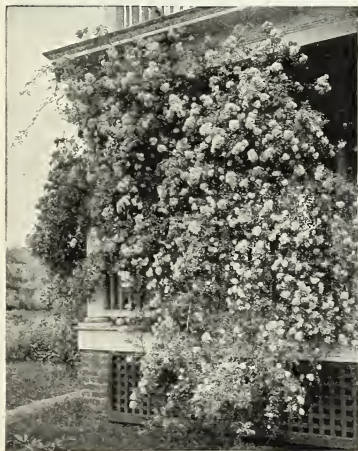
SOURCE d'Or. Considered as being the best yellow, with large, double flowers.

TAUSENDSCHON. Entirely distinct, not only in Ramblers but in Climbing Roses generally. The individual flowers are of a most elegant and graceful form, not stiff or unnatural, but as beautiful as a semi-double azalea. It is a most delicate shade of soft pink, when first opening changing to carmine on the reverse of petals when fully expanded. These are produced in trusses, each truss a veritable bouquet.

Price, any of the above varieties, extra-strong, field-grown plants, 75 cts. each, \$8 per doz., \$60 per 100



Mrs. John Laing Roses



Dorothy Perkins Roses

HARDY CLIMBING PLANTS

Ampelopsis (Sometimes called Boston Ivy and Japan Ivy)

Veitchii. This is the most deservedly popular of all climbing plants, being entirely hardy in the most exposed places and attaining a height of 30 feet in two or three years; clings to stones, brick or woodwork with the greatest tenacity. During the summer the leaves are a rich shade of green and lap over each other with great regularity, like a coat of mail or like slates on a roof. But it is in the fall that it shows its exquisite beauty. The leaves then change to the brightest tints of scarlet, crimson and orange, so dazzling as to be seen at a great distance. Extra strong, field-grown plants, 75 cts. each, \$8 per doz., \$60 per 100; extra strong, 3-yr.-old plants, 75 cts. each, \$7 per doz., \$50 per 100.

quinquefolia (Virginia Creeper; American Ivy). This well-known climber is one of the best and quickest growing varieties for covering trees, trellises, arbors, and the like. The large, deep green foliage assumes brilliant shades of yellow, crimson and scarlet in the fall. Strong field-grown plants, 75 cts. each, \$8 per doz., \$60 per 100.

Bignonia radicans (Scarlet Trumpet Vine)

For covering unsightly places, stumps, rockwork or planting in crevices in ledges, the Bignonias will be found very useful. The flowers are large, attractive and showy, and borne profusely when the plant attains a fair size. 50 cts. each, \$5 per doz.

CLEMATIS

The Clematis we offer this season are exceptionally fine, strong 2-year-old plants. We have reduced the number of varieties to such sorts as, from experience, we know to succeed best in our climate. Many failures in the growing of Clematis are the result of too shallow planting. The crown of the roots should be set at least 3 inches below the surface of the soil.

Small-Flowering Clematis

Paniculata (*Japanese Virgin's Bower*). This handsome hardy climber is one of the choicest and most satisfactory climbing flowering plants we know. The plant is of strong, rapid growth, with small, dense, cheerful green foliage, giving it a grace and elegance possessed by no other hardy climber. The flowers appear in the greatest profusion during August, and continue until late in the fall, are white in color and most deliciously fragrant. The plant succeeds in almost any position; not only is it well adapted to run up all kinds of supports, but is just as useful for planting among rockwork, sloping banks, covering graves, or, in fact, in any position where a graceful vine is desired. Strong, field-grown plants, 75 cts. each, \$7 per doz., \$50 per 100.

Jackmanii. The best known and most valued variety of this popular family. A perfect mass of bloom when in full flower. Color, dark, rich, royal purple. Strong, field-grown plants, 75 cts. each, \$8 per doz., \$60 per 100.



Clematis paniculata



Clematis Jackmanii

Large-Flowering Clematis

Henryi. Pure white; large and remarkably handsome. Strong, field-grown plants, 75 cts. each, \$8 per doz., \$60 per 100.
Ville de Lyon. Bright red, well-formed flowers; a very fine variety. Strong, field-grown plants, 75 cts. each, \$8 per doz., \$60 per 100.

EUONYMUS

Radicans. This trailing form of Euonymus is particularly desirable for its dense deep green evergreen foliage. It is extremely hardy and useful for covering low foundation walls or may be clipped the same as boxwood for an edging plant. Strong, field-grown plants, 75 cts. each, \$7 per doz., \$50 per 100.

HONEYSUCKLE

Halliana (Hall's Japan Honeysuckle). A strong, vigorous, almost evergreen sort; white flowers changing to yellow; very fragrant; flowering from July to December; holds its leaves nearly all winter. Extra-selected plants, 50 cts. each, \$5 per doz., \$40 per 100.

Scarlet Trumpet Honeysuckle. This and its varieties are the handsomest in cultivation. It is a strong, rapid grower and produces scarlet, inodorous flowers. 50 cts. each, \$5 per doz., \$40 per 100.

WISTARIA

Sinensis (Chinese Wistaria). A most beautiful climber of rapid growth. When well established it makes a growth of 15 to 20 feet in a season. Flowers pale blue. Extra-strong plants, 60 cts. each, \$6.50 per doz., \$50 per 100.

GRAPE-VINES

We receive many flattering testimonials as to the quality of our Grape-vines.

Selected vines, except where noted, 75 cts. each, \$8.50 per doz.; extra-strong, \$1.25 each, \$12.50 per doz.

White Grapes

Diamond. White. Bunch large, compact, shouldered; berries large, round; skin thin, but tough; flesh tender, juicy, with but little pulp. Vine is a good grower, with thick, healthy foliage; hardy and productive; of fine quality. Ripens a little before Concord.

Green Mountain. White. Bunch medium to large, shouldered; berries medium, greenish white; skin thin, tough; pulp tender, sweet, with few seeds; of excellent quality, free from foxiness; very early. Vine vigorous, healthy, hardy and very productive. A fine Grape, identical in every way with Winchell.

Niagara. White. Bunch very large and handsome, often shouldered; compact; berries large, round; skin thin, tough, does not crack, and carries well; has not much pulp when fully ripe; melting, sweet, with a flavor and aroma peculiarly its own, and agreeable to most tastes; ripens with Concord.

Pocklington. Pale green, usually with tinge of golden yellow where exposed to the sun; bunch large, very compact; berries very large, covered with a beautiful white bloom; flesh juicy, sweet, with considerable pulp.

Martha. White, turning pale yellow when fully ripe; very sweet; bunch medium, compact. Vine healthy and hardy. Very productive.

Red Grapes

Agawam. Red or maroon. Bunch usually loose, shouldered; berries large; skin thick; flesh pulpy, meaty, juicy, of a rich, peculiar aromatic flavor; ripens about with Concord; a good keeper. Vine a strong, rank grower, hardy and productive; should be pruned, leaving long canes.

Brighton. Red. Bunch medium to large, long, compact, shouldered; berries medium; skin thin; flesh tender, sweet, with scarcely any pulp; quality best. Vine a vigorous grower, healthy, hardy and productive; one of the best early red Grapes. The flowers have reflexed stamens and do not always fertilize fully unless planted with Concord, Worden, Martha, or other varieties which blossom at the same time. Ripens with Delaware.

Catawba. Dark red when fully ripe. Bunch large, moderately compact, shouldered; berries medium to large; skin thick, tough; flesh somewhat pulpy, with rich, vinous flavor, of best quality for both table and wine. Vine a good grower, hardy, with healthy foliage; very productive and profitable where it succeeds and matures well. Ripens too late for high latitudes.

Delaware. Red. Bunch small, compact, sometimes shouldered; berries small; skin thin, but firm; flesh juicy, very sweet and refreshing, of best quality for both table and wine; ripens with Concord or a little before. Vine hardy, productive, a moderate grower; requires rich soil and good culture. It is regarded by many as the best American Grape, all things considered. It should be in every garden and vineyard.

Salem. Red. Bunch and berry large; flesh tender, sweet, aromatic. Fine for table. Excellent keeper.



Niagara Grapes

Black and Blue Grapes

Concord. Black. Early. Decidedly the most popular Grape in America, and deservedly so. Bunch large, shouldered, compact; berries large, covered with a rich bloom; skin tender, but sufficiently firm to carry well to distant markets; flesh juicy, sweet, pulpy, tender. Vine a strong grower, very hardy, healthy and productive. For general cultivation the most reliable and profitable variety.

Eaton. Black. Similar in foliage to Concord. In growth, health, and hardness of vine, in every respect its equal, while in size of bunch and berry it is much larger and more attractive. Leaf large, thick, leathery, covered on the under side with a thick brownish yellow down. Bunch very large, compact, double shouldered; berries very large, many 1 inch in diameter, round, black, covered with a heavy blue bloom, adheres firmly to the stem; skin thin, but tough; pulp tender, separating freely from the seeds and dissolving easily in the mouth; very juicy. Ripens with Concord or a little earlier.

Moore's Early. Black. Bunch rarely shouldered; not quite so large as Concord; berries large and very much like it in flavor and quality. Vine a moderate grower; very healthy and hardy; foliage thick, leathery, somewhat resembling Concord, except on the under side, which is covered with a yellowish brown down. Produces a fair, and, with high cultivation, a heavy crop. Ripens so early as to be nearly out of market before Concord is ripe and is, therefore, a very popular early market variety. Succeeds best in rich soil.

Worden. Black. Bunch large, sometimes shouldered, compact; berries very large, skin thin. Superior to the Concord in the following points: It is better in quality, has a larger berry, a more compact and handsome cluster, and ripens five to ten days earlier.

HUBBARD The New Black Grape

Quality sweet and delicious, having that fine and pleasant flavor approaching the European or Vinifera Grapes; seeds few and small, which separate freely from the tender pulp; skin thin and firm; berries and bunch large and uniform. Ripens about 10 days earlier than Concord. We have investigated many new Grapes in the past 10 years and found no other with so many excellent points. The Hubbard Grape being of better quality, a better shipper, better size, healthy foliage, a strong grower and earlier ripening makes it a more desirable Grape to plant than either Concord or Niagara. Our supply of vines of this new Grape is limited and orders will be filled in rotation.

3-yr., first-class Vines, \$2.25 each, \$20 for 10, delivered by parcel post

CHOICE SELECTION OF SMALL FRUITS

We have endeavored to list only the choicest sorts and, while our list is a short one, only the finest sorts are offered. This is preferable to a long list which would necessarily contain varieties of less merit.

SHIPPING SEASON APRIL AND MAY

CURRENTS

Plant in rows 6 feet apart, and 4 feet apart in the rows, or, if to be cultivated both ways, 5 feet apart each way. The soil should be well cultivated to a depth of 12 inches. Plants should be well set and roots firmed in the soil. After planting cut back the tops one-half of the previous year's growth. For the first 4 or 5 years some of the wood made in the spring should be cut back in the fall, in order to make a more symmetrical plant and a greater number of fruit-buds. Rotted stable manure around base of plant forked in each fall will prove very beneficial.



Wilder Currants

Selected 3-year-old stock, 50 cts. each, \$5.50 per doz., \$45 per 100

Wilder (President Wilder). Bush upright, vigorous; clusters above medium length; berries averaging large; bright red; excellent, with a mild subacid flavor. Ripens early and remains bright and firm until very late. Because of its exceedingly vigorous growth, great productiveness, high quality, and remaining good so long after ripening, we recommend this as one of the best Red Currants, both for table and market.

Boskoop Giant. Bush strong grower; productive. Fruit rich, sweet flavor, ripens evenly and hangs well on bushes for a long time after ripening in good condition; firm, pulpy flesh, making it well adapted to canning and shipping. The largest and best of all black varieties.

White Imperial. Bush vigorous and very productive; clusters large; berries very large, sweet and most delicious. This is the best of the White Currants, and fine for the table. Equally desirable as a market Currant.

GOOSEBERRIES

Plant in the same manner as described for currants, and give the same annual manuring. The American varieties will need close pruning every year.

AMERICAN VARIETIES

Selected 3-year-old stock, 50 cts. each, \$5 per doz., \$40 per 100

Downing. Pale green, large, prolific and good. Best for home and market use.

Red Jacket. Bush vigorous, upright and productive. Fruit varies in size from medium to above medium. Color pale red.

Poorman. Good grower; hardy; productive. Fruit large; golden yellow; excellent.

Try a few
Plants of New
Everbearing
Raspberry
St. Regis.

BLACKBERRIES

Blackberries require the same treatment as raspberries and should be planted the same distance apart. We have avoided listed varieties of the prostrate habit, the tips of which constantly root in the ground.

Extra-strong canes, 20 cts. each, \$2 per doz., \$15 per 100
Blowers. Large; glossy; fine quality. Ripens early and continues long in season.

Eldorado. Large, coal-black, sweet, melting, without hard core. Vigorous, hardy and very productive. Fine market variety.

Iceberg. A snowy white Blackberry. Early, sweet, and tender.

Rathbun. Very large, jet-black; firm; best quality; very productive.

RASPBERRIES

Raspberries succeed well on any good land suitable for corn or wheat, but amply repay high cultivation. Ground bone is the best fertilizer. Red and yellow varieties should be planted in rows 6 feet apart and 3 feet apart in the rows; black- and purple-cap varieties 7 feet apart and 3 feet in the rows. Cut out all old wood as soon as the canes have done bearing—to give more vigor to the young canes. Blackcap varieties should be planted only in the spring.

Extra-strong canes, 20 cts. each, \$2 per doz., \$15 per 100

RED

Cuthbert. Deep rich crimson; large to very large; very firm. One of the very best market varieties. Season medium to late. A remarkably strong, hardy and productive variety.

Marlboro. Light crimson, large, very firm, and of good quality. A fine early market variety; vigorous and productive.

BLACK AND PURPLE

Columbian. Dull purple, very large, moderately firm. A good market berry and one of the best for canning. Bush remarkably strong and wonderfully productive.

Cumberland. Black. Very large; very similar to Gregg in quality and firmness; in hardness and productiveness it is unexcelled. One of the best midseason market varieties, and very popular.

Kansas. Black. Berries as large as Gregg and of better color; little bloom; of best quality; ripens early. The plant is a strong grower and productive.

YELLOW

Golden Queen. Large, golden yellow, of fine quality. Very hardy and productive; succeeds almost anywhere, and is a most desirable berry; bringing good prices in the market.

New Raspberry ST. REGIS EVERBEARING (Raniere)

A remarkable Raspberry and, all things considered, the most valuable variety that has appeared in the last quarter of a century. The berries, though not of large size, are bright red and of excellent quality. It ripens very early, in advance of all the other red varieties, and the canes, in addition to being exceedingly hardy and drought-resistant, are exceedingly prolific. It has rich green foliage that does not scald or rust, hence it succeeds on hot, sandy soil where other varieties fail. Besides yielding an enormous crop in June, it gives also a moderate one in the autumn, and, unlike other red Raspberries, it produces a crop of berries the first year, or the season it is planted.

30 cts. each, \$3 per doz., \$20 per 100.

STUMPP & WALTER CO.'S POULTRY SUPPLIES

Prairie State Incubators

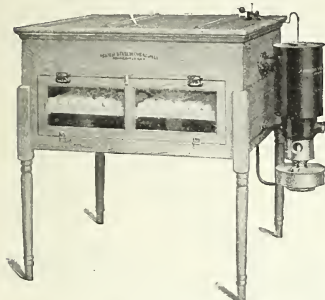


Illustration of No. 2 Standard Series Sand-Tray Incubator

Price, crated, with Non-Insurable Heater, \$70, f.o.b. N. Y.

Capacity: 240 hen eggs, 200 duck eggs.

Dimensions: Top, 38 x 40 1/2 inches; 20 1/2 inches deep.

Total height: 42 inches.

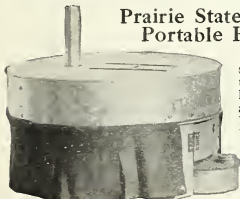
Weight: Crated, about 240 lbs.; net, about 175 lbs.

Equipment: 2 galvanized hardware cloth egg trays, 2 thermometers, mounted and tested, 1 egg-tester, 4 non-roll slats, 2 removable burlap mats, extra wicks, one-piece seamless lamp, 2 galvanized sand-trays, operating directions, everything complete, ready to run, except eggs and oil.

OTHER TYPES, COMPLETELY EQUIPPED

	Capacity Hens Eggs	With Non- Insurable Heater
No. 0 Standard	100	\$40 00
No. 1 Standard	150	50 00
No. 3 Standard	390	90 00

Prairie State Junior Portable Hover



This is of all-steel construction, fitted with heat - regulator and having a built-in lamp-box at one side. A highly efficient outfit at a low price. \$14.

Prairie State Stove Brooder

A coal-burning outfit which will successfully mother 1,000 chicks. Strongly made of cast iron, sheet and pressed steel. Shipped as a complete unit ready to be assembled for immediate use on removal from the crate. Complete, with all necessary equipment. \$45.

Prairie State "Junior" Stove Brooder

Will mother 800 chicks. A smaller outfit than the above. Complete, with all necessary equipment, \$40.

Hundreds of Articles Are Needed by the Poultry Keeper. They Are Offered in Our SPECIAL POULTRY CATALOGUE, A Copy of Which Will Be Mailed You Free If You Write For It.

Incubators
Brooders
Hovers
Thermometers
Hygrometers
Egg-Testers
Coops
Bone-Mills
Grist-Mills
Oat-Sprouters
Drinking-Fountains
Food-Hoppers
Egg-Carriers
Killing-Knives
Poultry-Markers
Caponizing Sets

Mixed Foods
Mash Foods
Meat Scrap
Grains
Peas
Sunflower
Blood Meal
Granulated Bone
Grit
Oyster Shell
Charcoal
Game Foods

Poultry Remedies
Insecticides
Disinfectants

Books on all branches of Poultry Keeping

Write for Catalogue Describing the Above

Incubator Thermometer

Universal. May be used as a hang-up, reclining, stand-up or inclining with proper holder. With holder, \$1, postpaid.

Prairie State Hand-Lamp Egg-Testers

To use on any ordinary hand-lamp. Constructed of tin plate, with heavy felt. 60 cts., postpaid.



The Fire-Fly Egg-Tester (Electric)

Patented

Fire-Fly Egg-Tester, complete, \$4.50. Shipping weight, 5 lbs.

New lamp, 40 cts. New Battery, \$1.25. Mailing weight, 2 lbs.

Poultry Bands



Eclipse. A colored band with large black numbers that are always visible. 5 cts. each, \$2.50 per 100.

Smith's Sealed Bands. Made of aluminum. Clear and easily readable. 2 cts. each, \$1.50 per 100.

Sealer for Smith's Bands. \$1.

Spirol Leg-Bands. Made of celluloid and are placed on the bird's leg in the same manner as a key is placed on a key ring. They are made in eleven colors: purple, yellow, light blue, pink, amber, black, ruby, white, red, green, and dark blue. 20 cts. per doz., \$1 per 100.

When ordering Leg-Bands always state for which breed of fowls they are required

Insecticides and Disinfectants

Formaldehyde Candles (Disinfecting). Produce formaldehyde gas, the most effective disinfectant known. 60 cts. each.

Chemo. A non-poisonous germ-destroyer for spraying fowls and chicken-houses. Qt. 95 cts., gal. \$3, 10-gal. can \$27.50.

Rust's Liquid Lice-Killer. Qt. 65 cts., 1/2 gal. \$1, gal. \$1.75, 5 gals. \$7.50.

Smith's Powder Lice-Killer. Lb. 40 cts., 2 1/2 lbs. 75 cts., 5 lbs. \$1.50.

Head Lice Ointment. For chicks. Bottle 25 cts.



The paint that disinfects. 10 lbs. \$1.25, 50 lbs. \$5, 100 lbs. \$10, trial pkg. 30 cts.

Remedies

Rust's Havens Roup Pills. 30 cts., 60 cts., and \$1.20.

Conkey's Roup Remedy. 35 cts. and \$1.20.

Pratt's Gape Remedy. 35 cts. and 70 cts.

Weak-Nee-Well. For leg weakness in chicks. 25 cts. and 50 cts.

Omi Sealy Leg Remedy. 30 cts.

Canker Remedy. 30 cts.



Planet Jr. Farm and Garden Tools

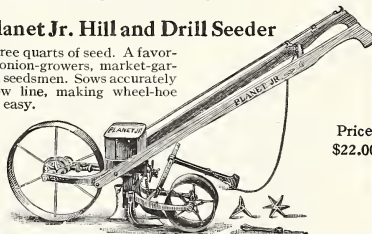


72-page Planet Jr. catalog free. Describes 70 tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Cultivators. Write postal for it

They cut down work and boost your crops. These scientific tools do the work of three to six men, give bigger yield, and save their cost in a single season. Invented and made by a practical farmer and manufacturer, with half a century's experience. Planet Jrs. are strong and lasting. Every tool fully guaranteed. Come and let us convince you of their economy. THE FOLLOWING PRICES ON PLANET JR. ARE SUBJECT TO CHANGE WITHOUT NOTICE.

No. 3 Planet Jr. Hill and Drill Seeder

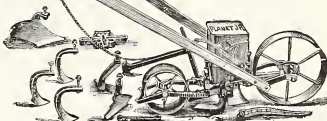
Holds three quarts of seed. A favorite among onion-growers, market-gardeners, and seedsmen. Sows accurately in a narrow line, making wheel-hoe cultivation easy.



Price,
\$22.00

No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator, and Plow

No. 4 D. Hill and Drill Seeder. Same as above, less the cultivating attachments. \$18.75.



Price, \$23.50

Soon pays for itself in the family garden as well as in the larger acreage. Sows all garden seeds (in drills or in hills), plows, opens furrows and covers them, hoes and cultivates quickly and easily.

No. 25 Planet Jr. Combined Hill and Drill Seeder, Double-Wheel Hoe, Cultivator and Plow

A splendid combination for the family garden, onion-grower, or large gardener. It is a perfect seeder, and combined double and single wheel hoe.



Price,
\$26.50

No. 31 Planet Jr. Combined Drill Seeder and Single-Wheel Hoe

This new tool is of great value to gardeners who have never felt able to own either a seed drill or a wheel hoe. It will sow even a small packet of garden seed with great precision.

Quickly changed to a splendid wheel hoe. A special machine for the small gardener.

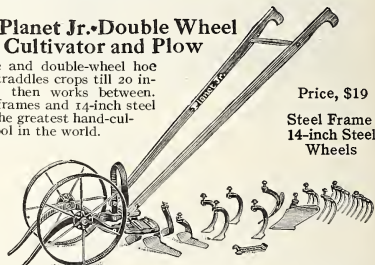
No. 31 D. As a Drill Seeder Only, \$12.50



Price,
\$15.50

No. 11 Planet Jr. Double Wheel Hoe, Cultivator and Plow

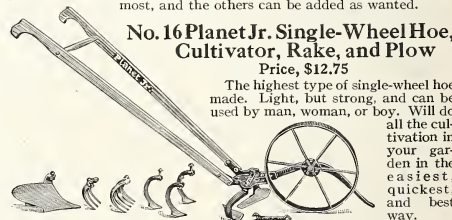
A single and double-wheel hoe in one. Straddles crops till 20 inches high, then works between. Has steel frames and 14-inch steel wheels. The greatest hand-cultivating tool in the world.



Price, \$19
Steel Frame
14-inch Steel
Wheels

No. 12 Combined Double and Single-Wheel Hoe, Cultivator, and Plow. Price, \$15.50

This tool is identical with No. 11 Double-Wheel Hoe, except that it has one pair of plows, one pair of hoes, four cultivator teeth, and a pair of leaf-lifters only, and is sold at a correspondingly lower price. The attachments sold with No. 12 are what gardeners use most, and the others can be added as wanted.



No. 16 Planet Jr. Single-Wheel Hoe, Cultivator, Rake, and Plow

Price, \$12.75

The highest type of single-wheel hoe made. Light, but strong, and can be used by man, woman, or boy. Will do all the cultivation in your garden in the easiest, quickest, and best way.

No. 17 Planet Jr. Single-Wheel Hoe. Price, \$10.75

Has a pair of 6-in. hoes, a plow, and a set of cultivator teeth; sufficient for most garden work.



No. 119 Garden Plow. Price, \$6.50

This tool will appeal to those who prefer a high wheel for their garden work. The equipment is so complete that it will meet all the needs of the ordinary garden, where adjustments and refinements of the higher priced wheel hoes are not required. Has plow, wide, narrow, and three-prong cultivator teeth and scuffle hoe for weed-cutting and shallow cultivation.

Planet Jr. Star Pulverizer, Leveler, and Weeder

This new tool is especially adapted for preparing the seed bed, and will be found of great value in smoothing and fining the soil surface. The rear blade is 13½ inches wide. After the crops are started, it may be used between rows as a weeder or as a crust-breaker. Price, \$7.35.



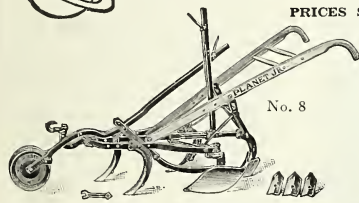
Planet Jr. Farm and Garden Tools

PRICES SUBJECT TO MARKET CHANGES

No. 8 Planet Jr. Horse Hoe and Cultivator

Price, complete, \$25. Weight, packed, 83 lbs.

No other cultivating machine is so widely known as the Planet Jr. Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle. It opens and closes furrows, hoes right up to the plants without danger of injuring, throws dirt to or from the row and throws back from center again. You can cultivate to any depth desired, and adjust for any width. Every part is perfected to make the tool acceptable to the intelligent farmer who knows the best is always the cheapest.

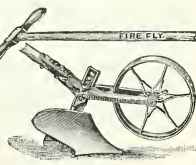


No. 8

Fire-Fly Garden Plow. Price, \$5

This tool is useful to owners of small gardens. It will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going a second time in each furrow. It opens furrows for manure or seeds and covers them, and opens up rows for all kinds of plant-setting. In cultivating, plow away lightly, allow a few days for all weeds to die, and plow back again. Chicken-raisers find it of great advantage in plowing up their scratching yards.

Planet Jr. No. 17½. Single-wheel hoe \$9 15
Planet Jr. No. 33. Single-wheel hoe, cultivator, and plow (Wheel Hoe equipment of No. 31 listed on preceding page) 8 00



The Oliver Chilled Plow

STEEL BEAM STYLE



The Oliver Chilled Plow is adapted for sandy and stony soils. As a general-purpose Plow it is acknowledged to be the best. Made in one-horse and two-horse sizes, with steel and wood beams.

	Capacity	Steel Beam	Wood Beam
No. 10 One-horse, light.....	5' x 10 in.	\$15 75	\$13 75
No. 19 Two-horse, heavy.....	5' ½ x 12 in.	20 00	18 00
No. 20 Two-horse, medium.....	6' ½ x 12 in.	23 75	25 00
No. 20 Two-horse, light.....	7' x 13 in.	23 75	
No. 82 Two-horse, medium.....	7' ½ x 13 in.	25 00	
No. 84 Two-horse, heavy.....	9' x 16 in.	26 25	

Plows with wheel, add \$2.50. Plows with jointer, add \$5.
 We can also supply "South Bend" and "Syracuse" Plows.

Steel Disc Smoothing Harrow



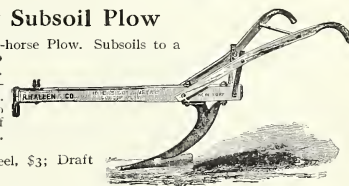
The frame measures 6 feet 8 inches by 6 feet and has four sets of rollers, having 8 discs 8 inches in diameter. A very useful harrow, \$55.

Patent Subsoil Plow

No. 16. One-horse Plow. Subsoils to a depth of 10 in. \$15.

No. 17. Two-horse Plow. Subsoils to a depth of 14 inches. \$16.

Add for wheel, \$3; Draft rod, \$7.



"Boss" Combination Plow

The handiest one-horse turning Plow for use by market-gardeners and farmers. Actually four Plows in one. It can be worked as a medium and heavy one-horse Plow, and as a Plow for operating among cabbage, strawberries, etc. \$12.50.

With the double mold-board and share, \$15.75.



American Corn Planter

Is fitted with patent adjustable seed disc and brass-spring cut-off. Does accurate work. \$4.

You Get Bigger Crops From Corrected Soils

The "Big Crop" Soil Test tells you whether or not any piece of land is in the proper condition to produce a "Big Crop." It tells in a few minutes and at the cost of 2 cents per field, how to insure the biggest results from lime and manure at the lowest cost. In detail it will tell you:

Whether or not your soil needs lime and how much per acre.

Whether or not manure (organic matter) is needed.

Whether or not your soil needs inoculation for alfalfa, clovers, cowpeas, soy beans, vetch, and other legumes.

Where and where not green manuring will pay.

Which fields of your farm are best adapted to alfalfa, clovers, grain, corn, potatoes, beets, etc.

Where and where not to apply chemical fertilizers and how to use them at the least possible loss through leaching.

How to build up worn, thin, neglected soil properly and systematically.

In short, it will answer all questions as to how to put your land in the best condition for bigger crops and lasting soil fertility.

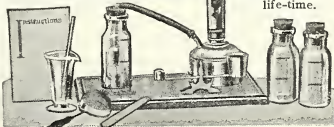
Price: \$12 per outfit, complete. Shipping weight, 4 lbs. A test costs 2 cents and takes 2 minutes to make

TEST AND CORRECT EVERY FIELD BEFORE PLANTING

Lime and manure (organic matter) are the most important "Big Crop" makers in the soils. If the soil runs short in these soil elements, crop yields run short also. Every crop eats up lime and manure, every rain washes lime and manure out of the soil. No two soils contain the same proportions of lime and manure.

If you know each year by testing each field with the "Big Crop" Soil-Tester, How Much lime and manure is left, then you can add enough, where it will pay the biggest returns instead of spreading it where it is not needed and cannot be made to pay.

AUTOMATIC. Any 12-year-old boy can make the tests. Substantially built from steel, brass, aluminum, to last a life-time.



Plant-Protectors, Grape-Bags, Hay-Caps and Celery Bleachers



Hay-caps for protecting and curing hay

The Ball Plant-Protectors

The loss of time and money in early plants, due to the frost and chilly winds, frequently exceeds the cost of the Ball Plant-Protectors. All early plants, such as cucumbers, eggplants, melons, peppers, and tomatoes should have some protection when transferred from the hotbeds to the field or garden. Use the Ball Plant-Protectors (safety first) and run no risk of losing early plants. These Plant-Protectors consist of substantial wood frames covered with good white muslin, which is drawn to a knob at the top to serve as a handle. Each frame projects sufficiently at the bottom to allow of being forced into the ground. This is necessary to secure them from being dislodged by the wind, and to permit the raising of the Protectors for a circulation of air. Plants like lettuce and spinach receive the right amount of shade and do much better in the hot summer months, when the Ball Plant-Protectors are used. The plants do not go to seed so quickly. For convenience in shipping or storing, the Ball Plant-Protectors will nest like strawberry or verberna baskets.

Size	Diameter	Height	Doz.	100
No. 1.....	9-inch.....	12-inch.....	\$4 00	\$29 00
No. 2.....	12-inch.....	15-inch.....	4 80	36 00

SEND FOR DESCRIPTIVE CIRCULAR WITH ILLUSTRATIONS

The Ball Celery-Bleaching Tubes

THE QUICKEST BLEACHER ON EARTH

The Ball Celery Bleaching-Tubes are the greatest labor- and money-savers yet introduced for the benefit of the celery growers. This new system of bleaching celery is being rapidly adopted in place of the old and expensive way of using boards and banking up. Some of its many advantages are: Celery will not rot in these tubes in wet weather as it frequently will when boards or strips of paper are used. Each plant has a free circulation of air all around, which allows it to dry out quickly after a rain. Celery bleached in this manner is ready for the table much earlier in the fall and positively sweeter, cleaner and free from all earthy flavor. Celery should be nearly full-grown before putting on the bleaching tubes. The bleachers should hug the celery close, but not tight. Trim off a few leaves when the plants are unusually large. Celery will be in prime condition from eight to fourteen days after the tubes are placed. The 6 x 12-inch size is generally used on medium or average size celery; the 6½ x 13 is for larger stalks; the 7 x 14 size is best for very large celery, especially the green varieties, which usually grow much larger than the self-bleaching kinds. Bleaching is done better when the temperature ranges between 50 and 75 degrees.

Size	Doz.	100	1,000
6 x 12-inch.....	\$0 70	\$4 00	\$35 00
6½ x 13-inch.....	80	4 50	40 00
7 x 14-inch.....	90	5 25	46 00

For bleachers sent by parcel post allow 2 lbs. per doz.

SEND FOR DESCRIPTIVE CIRCULAR WITH ILLUSTRATIONS

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

Hay-Caps for Protecting and Curing Crops

Handling the hay crop, so that the maximum amount of digestible nutriment are retained, demands good management and good tools. In preparing for the hay-making season, the wise farmer includes with his necessary appliances, hay-caps for protecting the curing crops. The hay-caps supplied by Stumpp & Walter Co., as shown in the illustration, are made substantially of heavy waterproof sheeting. In order to hold the hay-caps down, eyelets are provided in each corner to attach weights. Our hay-caps are valuable not only for protecting hay and alfalfa from rain and dew, but also for curing crops. Hay and alfalfa have a better appearance and contain more nutriment when cured in this manner.

Size	Doz. lots	100 lots	250 lots	500 lots
40 x 40 inch.....	\$9 60	\$0 75 each	\$0 70 each	\$0 65 each
50 x 50 inch.....	13 20	1 15 each	1 10 each	1 05 each
60 x 60 inch.....	18 00	1 45 each	1 40 each	1 35 each
72 x 72 inch.....	25 20	2 05 each	2 00 each	1 95 each

Shuredry Hay-Stack Covers

The Shuredry Hay-Stack Covers are substantially made of waterproof cloth and not affected by the weather. They will not heat, stick, or crack. The Shuredry Hay-Stack Covers are valuable for protecting grain as well as hay and alfalfa when stacked out in the field.

Size	Each	Size	Each
8 x 10 feet.....	\$14 50	20 x 20 feet.....	\$72 00
10 x 10 feet.....	18 00	25 x 25 feet.....	102 50
12 x 12 feet.....	26 00	30 x 30 feet.....	162 00
15 x 14 feet.....	38 00		

Other sizes than listed can be furnished. Prices on application



Grape-Protecting Bags

When grapes are forming they require protection from mildew and blackrot, also attacks by bees, birds, and insects. Many of our fruit-growers are using the grape-protecting bags every season. They have learned by experience that the protected fruit soon saves the cost of the bags. We supply No. 2 Bags for small clusters. No. 4 Bags for large clusters. Best quality string-tied bags as shown in illustration.

Size	100	1,000
No. 2.....	\$1 25	\$8 00
No. 3.....	1 50	10 00
No. 4.....	1 75	12 00

Protecting bags fastened with wires of good quality but lighter than the string-tied bags. Wires are furnished with bags.

Size	100	1,000
No. 2.....	\$0 60	\$5 25
No. 3.....	70	6 00
No. 4.....	80	6 75

Garden and Lawn Tools

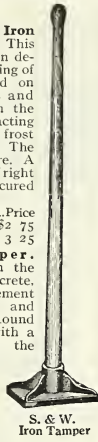
PRICES SUBJECT TO
MARKET CHANGES

Tampers

S. & W. Co.'s Iron Sod Tamper. This Sod Tamper is in demand for the laying of sod. It is used on putting-greens and terraces; also in the spring for compacting the sod after the frost has disappeared. The Tamper is square. A wooden handle of right size is firmly secured to the Tamper.

Size, ins. Weight lbs. ea. Price
8x8 17....\$2 75
10x10 20.... 3 25

Cement Tamper. Largely used in the laying of concrete, brick and cement floors, walks and driveways. Round and equipped with a wooden handle, the same as the sod tamper.
6-in. diam., 16 lbs., \$2.75 each; 6-in. diam., 24 lbs., \$4 each.



S. & W.
Iron Tamper

S. & W. Sod Perforator

The best low-priced device for renovating bad spots in lawns, terraces, greens, etc. Before sowing grass seed, use the Sod Perforator. The operation permits the seed to enter the soil, where it is covered with fertilizer or by sprinkling the surface. The seed will germinate and come up uniformly, producing a vigorous growth of rich grass. The spikes are firmly set in an oak block, made in two halves and put together with screws. The handle is the right thickness and length. 12 x 12 in., \$5.25.



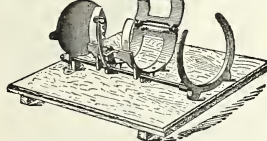
Asparagus Knives

Imported English.
Saw-Tooth, Plain.
\$2 each.

Highly Finished.
\$2.50 each.

Sod Perforator

American Asparagus Knives.
Straight Edge. \$1 each, \$10 per doz.
V-Shape. \$1 each, \$10 per doz.



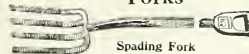
Acme Asparagus Buncher

No. 1 makes bunch 3 to 3 1/2 in. diam.
\$4 each.

No. 2 makes bunch 4 to 4 1/2 in. diam.
Length, adjustable, 7 to 9 in. \$4.25 each.

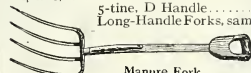
For Garden Set of Tools and the S. & W. Co.'s Combination Tool Basket, see page 129.

Forks



Spading Fork

Spading Forks. Best grade; tines spear-pointed with diamond-shaped bars; handle strapped both sides. Of superior quality and very strong.
Each
4-tine, D Handle.....\$2 00
5-tine, D Handle..... 2 50
Long-Handle Forks, same price.



Manure Fork

Manure Forks. Best grade; strong oval tines.
Each
4-tine, D Handle.....\$2 00
5-tine, D Handle..... 2 25
6-tine, D Handle..... 2 50
Long-Handle Forks, same price.

Hay Forks.

Best grade; strong oval tines, made only with long handles.
Each
2-tine, Long Handle.....\$1 25
3-tine, Long Handle..... 1 50
4-tine, Long Handle..... 1 60
Boys' Spading Forks..... 1 20

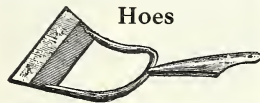


THE MARK OF QUALITY

Norcross Cultivator Hoe and Weeder

Wherever vegetables, plants and flowers are grown, these modern tools are rapidly replacing the ordinary hoe. They are made in three sizes, and can be used in wide or narrow rows. Will also cultivate both sides of a row at one operation, when the middle prongs are removed. The three-prong weeder is the women's size. They destroy weeds, leave the soil level, loose and untrampled.
5-prong, \$1.75; 3-prong, \$1.15; Midget, 60 cts.

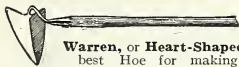
Hoes



English Scuffle Hoe. Imported. Positively the best. The quality of material used and finish is superior to all others.

Size	Each	Size	Each
4-in.....	\$1 10	8-in.....	\$1 50
5-in.....	1 20	9-in.....	1 60
6-in.....	1 30	10-in.....	1 80
7-in.....	1 40	12-in.....	2 10

Extra-strong handles, 4 1/2 ft., 50 cts.; 6 ft., 80 cts. each.



Warren, or Heart-Shaped. The best Hoe for making drills, covering, hoeing and weeding.
Each
Small size.....\$1 55
Medium size..... 1 65

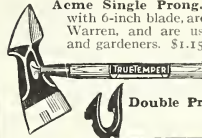


Draw, or Garden. Sizes for boys, ladies and men.

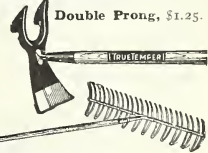
Size	Each	Doz.
5-in.....	\$1 00	\$10 00
6-, 6 1/2-, 7-, and 7 1/2-in.....	1 20	12 00

HOES, continued

Acme Single Prong. Acme Hoes with 6-inch blade, are similar to the Warren, and are used by florists and gardeners. \$1.15 each.

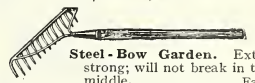


Double Prong, \$1.25.



Rakes

Reversible Steel. Suitable for lawn and garden. Has 24 teeth. \$1 each.



Steel-Bow Garden. Extra strong; will not break in the middle.
Each

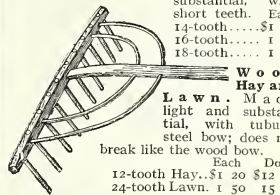
12-tooth.....	\$1 30
14-tooth.....	1 40
16-tooth.....	1 50



Steel Garden. Cut from one piece of steel; strong and durable.
Each

10-tooth.....	\$1 00	14-tooth.....	\$1 20
12-tooth.....	1 10	16-tooth.....	1 30

Steel Gravel. Like the Garden Rake. Made substantial, with short teeth.
Each
14-tooth.....\$1 30
16-tooth..... 1 40
18-tooth..... 1 60

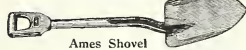


Wood Hay and Lawn

Made light and substantial, with tubular steel bow; does not break like the wood bow.
Each Doz.

12-tooth Hay.....	\$1 20	\$12 00
14-tooth Lawn.....	1 50	15 00

Shovels



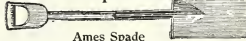
Ames Shovel

Ames Shovels are the best manufactured; give best service.
Each
Square Point, D Handle.....\$2 50
Round Point, D Handle..... 2 60
Long-Handle Shovels same price.

S. & W. Co.'s Shovels.

Square Point, D Handle.....	\$2 00
Round Point, D Handle.....	2 10
Long-Handle Shovels same price.	

Spades



Ames Spade

Ames Spades are the same grade as the Ames Shovels.
Each

D Handle and Long Handle.....	\$2 50
-------------------------------	--------

S. & W. Co.'s Spades are the same grade as S. & W. Co.'s Shovels.

D Handle and Long Handle.....	\$1 75
Boys' Spades.....	2 00

Small Garden Tools

PRICES SUBJECT TO
MARKET CHANGES

Dibbles or Dibbers

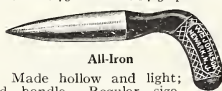
Just the tool for transplanting tomatoes, cabbage, celery, etc.

Brass point and wood handle.

Brass Dibber

The best Dibber. Polishes quickly; does not rust. \$1.25 each, \$13 per doz.

Steel point and wood handle. Regular size, 9 3/4 in. 85 cts. each, \$8.50 per doz. Small size, 8 in. 75 cts. each, \$7.50 per doz.



All-Iron

All-Iron. Made hollow and light; japanned handle. Regular size, 9 3/4 in. 85 cts. each, \$8.50 per doz.



Gem Hand Fork

Has three steel prongs and finished handle. A handy Fork for transplanting strawberries, loosening the soil, etc. 50 cts. each.

Grass Hooks

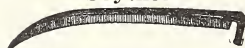


Imported English. With heavy riveted back, thin cutting blade, easy to sharpen; forged from the best-grade steel. No. 2, \$1 each; No. 3, \$1.10 each, No. 4, \$1.25 each.



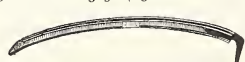
Blue Ribbon. Tempered steel blade; black-enamelled handle. Used also for a Corn Hook and for clipping hedges. Blade can be detached and packed for parcel post. \$1 each, 3 lbs., packed.

Scythes



Imported English. Has a riveted back, broad, thin, light blade. Best Scythe for cutting grass, rye, oats, etc.

30-in.....	\$3 25	34-in.....	\$3 75
32-in.....	3 50	36-in.....	4 00



The Little Giant. Has a ribbed back, is heavier and better adapted to rough work.

32-in.....	\$2 00	36-in.....	\$2 40
34-in.....	2 20	38-in.....	2 60

Scythe Snath, or Handle. The very best, with patent socket. \$2.25.



The Ritten-house

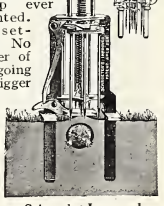
Self-setting. No danger of its going off unless the trigger is touched. Made of all steel and tinned. Six in a crate. These spears are spring steel, therefore not so long as soft steel. \$1.40 ea., \$14 per doz.

Reddick's. \$1.50 each, \$15 per doz.

Mole Traps

Schroeder Improved No. 1. It has a rest on top for a weight, also eight sharp prongs and a strong spiral spring. \$2.25 ea., \$24 per doz.

The Ritten-house. The simplest, safest, and surest mole trap ever invented.



Schroeder Improved

Garden Line Reels

Malleable Iron. Holds 100 feet. \$1.25.

Eureka. Galvanized steel. Single, 500 feet size, \$3.50. Double, 1,000 feet size, \$4.25.



Line Reel

Garden Line

Best Braided Linen. 100 feet, one length, \$1.50. 200 feet, one length, \$2.75.

Trowels



Slit Jim. Excellent for setting bulbs or transplanting. 5-inch size, 25 cts.; 7-inch size, 35 cts. each.



Solid Steel. This trowel is second to the Maynard Trowel in quality and finish. The blade and shank are one piece, forged out of the best of steel. Made in three sizes. 5-in., 75 cts.; 6-in., 80 cts.; 7-in., 90 cts. each.

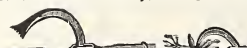


The Maynard is the best made Trowel. The ferrule and shank, as well as the blade, are forged in one piece. Only the very best material used. 6-in., \$1 each.



Florists' Steel Trowel

This Trowel is made in one piece of heavy sheet steel. One size only, 6-in., 50 cts. each.



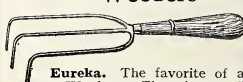
Cleveland Lawn Weeder

TROWELS, continued



Transplanting. Very handy for transplanting cabbage, tomatoes, etc. Solid steel shank and blade. 85 cts. each, \$9 per doz.

Weeders



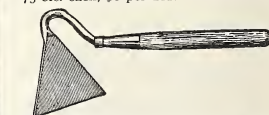
Eureka. The favorite of all hand Weeders. The three solid steel prongs are set 1 1/2 inches apart to allow cultivating between two or more plants at once. Short handle, 75 cts. each. Larger size, 24-inch handle, 90 cts. each.



Excelsior Finger. This five-short-prong Weeder is excellent for loosening the soil in small flower-beds, etc. 25 cts. each, \$2.50 per doz.



Hazeltine's Hand. Better known as Beet Weeder. A handy tool for weeding between beets, carrots, and all small vegetables and flowers. Made of 1-inch-wide spring steel 75 cts. each, \$8 per doz.



Three-Cornered Onion. For weeding onions, carrots, etc. Also for cleaning between rows. 75 cts. each, \$8 per doz.

Cleveland Lawn. Is simple to operate; it not only saves the back, but is actually a pleasure to use. The cut is a good illustration, showing how to work it. \$1.50 each, \$15 per doz.

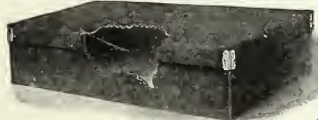


Midget Warren Hoe. Blade and shank forged from the best quality of steel. Handle is turned, polished, and enamelled. Excellent for making drills and covering; also for transplanting and weeding. 90 cts. each, \$9.50 per doz.



Flower Boxes, Baskets, Pots and Fibreware

PRICES SUBJECT TO
MARKET CHANGES



Corrugated
Flower Box

Flower Boxes

Cardboard, Flower. Ivy green; lock corners.

No.	Depth	Length	Width	Doz.	100
No. 1.	3 in.	18 in.	5 in.	\$1 20	\$8 50
No. 2.	3 1/2 in.	21 in.	7 in.	1 80	13 50
No. 3.	4 in.	24 in.	8 in.	2 40	17 00
No. 4.	5 in.	28 in.	8 in.	2 80	20 00
No. 5.	5 in.	30 in.	8 in.	3 60	26 00
Violet.	Length	Width	Depth		
No. 5.	11 in.	5 1/2 in.	8 in.	1 75	12 00
No. 10.	9 in.	5 in.	6 in.	1 25	9 00

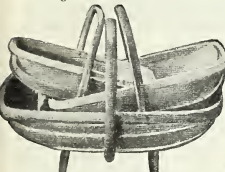
Corrugated Cardboard. Very heavy and durable; extensively used by florists for shipping cut-flowers.

No.	Depth	Length	Width	Doz.	100
A	20 x 7 x 4 in.			\$7 20	\$52 00
B	28 x 8 x 5 in.			9 60	69 00
C	30 x 12 x 6 in.			12 50	85 00
D	36 x 14 x 8 in.			15 00	110 00
E	48 x 14 x 8 in.			21 00	150 00
F	36 x 12 x 6 in.			13 50	100 00

English Garden Baskets

Durable, light and handy for cut-flowers or vegetables.

No.	Depth	Length	Width	Each	Doz.
2	11 1/2 x 6 in.			\$1 25	\$13 00
4	15 x 8 in.			2 00	22 00
5	10 1/2 x 9 in.			2 25	25 00
6	18 1/2 x 10 in.			2 50	28 00
7	21 x 11 in.			3 00	33 00
8	23 x 12 in.			3 75	42 00



English Garden Baskets

Orchid Baskets

Size	Doz.	100
6 in.	\$5 30	\$40 00
8 in.	6 30	50 00
10 in.	8 50	65 00
12 in.	10 00	80 00

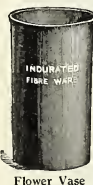


Orchid Basket

Flower Vases, FIBREWARE, Waterproof

For displaying cut-flowers. Not easily broken, like earthenware; do not rust like metal Vases. Order by number. Inside dimensions are given.

No.	Depth	Each	Doz.	100
0.	13 in.	8 in.	\$2 50	\$26 00
1.	10 1/2 in.	5 1/2 in.	2 00	22 00
2.	9 in.	4 1/2 in.	1 80	20 00
3.	6 1/2 in.		1 65	17 00
4.	5 in.	3 in.	1 40	14 00
00.	21 in.	9 1/2 in.	7 00	78 00
01.	20 in.	7 in.	4 40	45 00
11.	18 in.	6 in.	2 75	30 00
22.	15 in.	4 1/2 in.	2 50	27 00
33.	12 in.	4 in.	2 20	24 00
44.	9 in.	3 in.	1 75	19 00



Flower Vase

Azalea Pots

These pots differ from standard flower pots in that they resemble the bulb pans but are deeper. Excellent for growing bulbs for exhibition.

Diam.	Depth	Doz.	100
7 in.	6 in.	\$1 80	\$11 00
8 in.	7 in.	3 15	19 00
9 in.	7 1/2 in.	4 50	28 00
10 in.	8 in.	6 50	39 00
12 in.	10 in.	10 00	58 00
		20 00	113 00

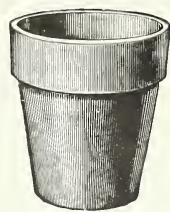


Azalea Pot

Flower Pots, Standard

EARTHENWARE. Best on the market

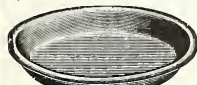
Diam.	Doz.	100	1,000
2 in.	\$0 35	\$1 50	\$12 00
2 1/2 in.	40	2 10	16 50
3 in.	50	2 70	21 60
4 in.	80	4 20	33 60
5 in.	1 50	7 50	60 00
6 in.	2 00	11 25	90 00
7 in.	3 10	18 60	148 80
8 in.	5 25	28 00	224 00
9 in.	7 50	39 00	312 00
10 in.	11 00	58 00	464 00
12 in.	21 00	113 00	910 00



Flower Pot

Saucers of same material, to fit Pots, furnished extra

Diam.	Doz.	100	Diam.	Doz.	100
4 in.	\$0 45	\$2 50	8 in.	\$1 60	\$9 50
5 in.	55	3 15	9 in.	2 25	13 00
6 in.	85	4 90	10 in.	2 75	15 00
7 in.	1 20	6 50	11 in.	3 00	18 00



Flower-Pot Saucer

No.	Diam. outside	Each	Doz.	No.	Diam. outside	Each	Doz.
5.	5 in.	\$0 52	\$5 20	10.	10 in.	\$0 78	\$7 80
6.	6 in.	55	5 50	12.	12 in.	86	8 60
7.	7 in.	60	6 00	14.	14 in.	1 12	11 20
8.	8 in.	65	6 50	16.	16 in.	1 98	19 80
9.	9 in.	70	7 00	18.	18 in.	2 30	22 00

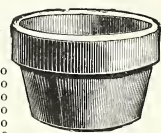
Flower-Pot Saucers

FIBREWARE. Waterproof

Light and not readily broken; have a surface that will not scratch, like earthenware. Order saucer 2 inches larger than the bottom diameter of pot.

Bulb Pans. EARTHENWARE

Diam. at top	Depth	Doz.	100
4 in.	4 in.	\$4 50	\$26 50
8 in.	4 1/2 in.	7 00	40 00
9 in.	5 in.	9 50	55 00
12 in.	6 in.	19 50	114 00
14 in.	7 in.	32 00	182 00
16 in.	8 in.	73 00	425 00



Bulb Pan



Square Seed Pans

Square Seed Pans EARTHENWARE

Size	Each	Doz.	100
6 x 6 in.	\$1 10	\$10 20	\$81 00
8 x 8 in.	1 40	13 20	112 50
10 x 10 in.	1 75	17 00	135 00
12 x 12 in.	2 20	20 50	160 00

Paper Flower Pots, Neponset

Very economical; waterproof; can be nested closely for shipping.

Diam.	Doz.	100
2 1/2 in.	\$0 15	\$0 80
3 in.	25	1 20
3 1/2 in.	30	1 50
4 in.	40	2 00
5 in.	60	3 50
6 in.	85	5 50



Paper Pot

Flower-Pot Brackets

Made of steel, artistic in design, finished in black. Saucers are absolutely secured by spring clasp.

No. 1.	Length of arm,	7 in.	Clasp will hold 5-in. pot.....	\$0 75
No. 2.	Length of arm,	8 in.	Clasp will hold 6-in. pot.....	90
No. 3.	Length of arm,	10 in.	Clasp will hold 7-in. pot.....	1 10

Flower-Pot Handles and Hangers

(Krick's Perfect)

No. o.	Will fit from 2- to 3 1/2-in. pots.....	\$o 60
No. 1.	Will fit from 3 1/2- to 5-in. pots.....	65
No. 2.	Will fit from 5- to 8-in. pots.....	70
No. 3.	Will fit from 8- to 12-in. pots.....	75

Self-Watering Hanging-Baskets and Boxes, Thermometers and Plant-Tubs

PRICES SUBJECT TO MARKET CHANGES



Self-Watering Hanging-Basket

surface of the soil occasionally and, if dry, refill the reservoir. A liberal supply of air to the roots is constantly maintained through the sponges, the soil will always be found mealy and loose, and the moisture is always evenly distributed from top to bottom of soil. Do not refill reservoir unless the condition of the soil shows that watering is needed.

Prices for Design A

No.	Height in.	Width in.	Length in.	Capacity qts.	Price	No.	Height in.	Width in.	Length in.	Capacity qts.	Price
1	8	9 1/2	23	2 1/2	\$4 25	6	8	9 1/2	33	5	\$6 00
2	8	9 1/2	25	3	4 50	7	8	9 1/2	35	5 1/2	6 25
3	8	9 1/2	27	3 1/2	4 75	8	8	9 1/2	37	6	6 50
4	8	9 1/2	29	4	5 00	9	8	9 1/2	39	6 1/2	6 75
5	8	9 1/2	31	4 1/2	5 75	10	8	9 1/2	41	7	7 25

FOR BULBS. Our Self-watering Baskets and Boxes are, without question, the most satisfactory device for growing bulbs ever devised. A beautiful and certain growth, with a minimum of care.

FOR FERNS. Nearly every home-lover is a lover of ferns, but few succeeded with them. They never fail in Illinois Self-Watering Flower-Boxes, or Hanging-Baskets.

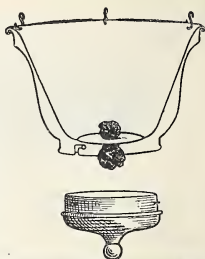
Self-Watering Hanging-Baskets

These Hanging-Baskets are made entirely of heavy sheet-zinc, spun into form and without seams; can be used in a library or parlor or any desired place without danger of damaging the most delicate furniture or fabric, as leaking or dripping of water is absolutely impossible.

Filling the water-container is necessary but once a week, and this can be accomplished from the floor without disturbing the basket or using anything on which to stand.

A strong, solid brass chain is furnished. Additional chain required charged for at 5 cts. per lineal foot. We also furnish a strong, neat bracket, suitable for hanging-baskets, bird-cages, etc. With screws, 50 cts.

Diameter 8 in.	\$5 50
Diameter 10 in.	6 75
Diameter 12 in.	8 00



Illinois Self-Watering Flower-Boxes

Remarkable for the small amount of attention required. The reservoir in bottom provides the water as needed; it is only necessary to examine the



Design A

TUBS

Plant-Tubs, New York Cedar

Made of the very choicest seasoned cedar, highly finished with black hoops; will last twice as long as cypress tubs. Inside Measure

No.	Diam.	Height	Price
1	12 in.	10 1/2 in.	\$3 75
2	13 in.	13 in.	5 00
3	14 1/2 in.	15 in.	6 25
3 1/2	16 1/2 in.	15 1/2 in.	7 50
4	19 1/2 in.	17 in.	9 50
5	22 1/2 in.	18 1/2 in.	12 00

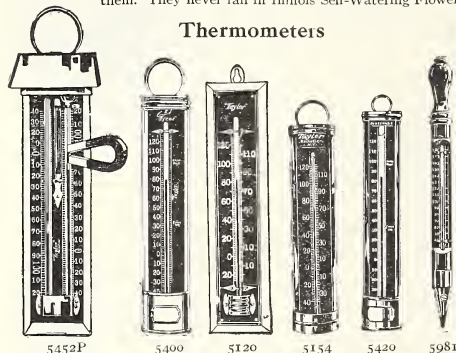
Barclay Tree Tubs. Made of seasoned, selected Virginia White Cedar; bound with electric-welded wire hoops (galvanized), three hoops to each, except the smallest two tubs which have two.

No.	Top Diam. inches	Depth inches	Price Each
1	6	6	\$1 10
2	7	7	1 10
3	8	8	1 20
4	9	9	1 35
5	10	10	1 60



New York Cedar Tub

Thermometers



No. 5452P, Self-Registering. (Siebe's Pattern.) Copper case, black brass scale, white figures. **Maximum and Minimum.** 8-inch, \$5.50; 10-inch, \$6.50. Magnet with chain.

No. 5400. Black japanned heavy tin case; brass scale, white figures. (Mercury.) Scale range, 10 to 40 degrees below zero to 120 above. **Standard Grade.** 8-inch, \$1.50; 10-inch, \$1.75.

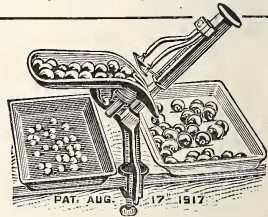
No. 5420. Black japanned heavy tin case. For greenhouses. Black oxidized brass scale, white figures. (Spirit.) 8-inch, 90c.; 10-inch, \$1. **No. 5154.** Copper case; distance reading. Black oxidized brass scale, white figures. (Spirit.) Scale range, 120 degrees above to 40 degrees below zero. 8-inch 75 cts.; 10-inch, \$1.

No. 5120. Distant reading. Wood back Mission finish, brass scale, white figures and graduation. (Spirit.) Easy to read at distance. 8-inch, \$1.25; 10-inch, \$1.50.

No. 5981. Horbed. Wood frame, 16 inches, with point. Brass oxidized scale, white figures and graduations. Best grade, \$2.50.

Home Cherry Stoner

Simple of operation. Easily handled, can be attached to a table. Made of strong, durable material. \$2 each.



PAT. AUG. 17 1917

BASKETS AND GARDEN TOOLS

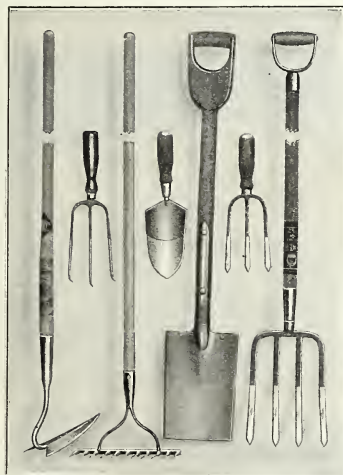
PRICES SUBJECT TO
MARKET CHANGES



S. & W. Co.'s Garden Barrow

One of the most useful articles on the list of garden and lawn tools. Materials are selected oak, mortised and bolted together, strengthened with six iron braces. Made substantial, light and for long service. Wheels with 3-inch tread are preferred.

SIZE	Front Width	SIZE OF BOX		Rear Width	SIZE OF WHEEL				
		Depth	Length		Diam.	Tread	Price	Tread	Price
Medium...	18½ in.	12 in.	26½ in.	23 in.	20 in.	1½ in.	\$9.50	3 in.	\$10.00
Regular...	20 in.	12 in.	28 in.	24 in.	22 in.	1½ in.	10 35	3 in.	10.80



S. & W. Co.'s Garden Tool Set

The S. & W. Co.'s Garden Tool Set is a selection of the most useful tools of the size and kind used in the garden. They are light but strong, and the right size for ladies' and children's use. They consist of 1 Spade, 1 Digging Fork, 1 Rake, 1 Hoe, 1 Trowel, 1 Hand Fork, and 1 Hand Weeder. Every tool is of good quality, well made and will give good service. Price, \$6

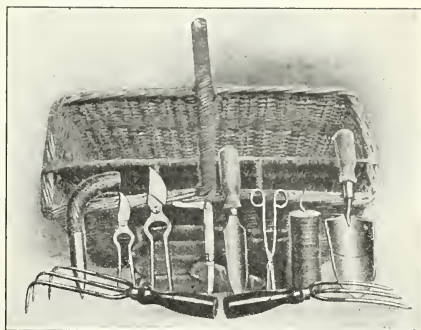
General-Purpose Baskets

Used for many purposes on the farm. Handy for carrying corn, coal, wood, vegetables, leaves and rubbish, etc. Best oak splint, reinforced with iron hoops. Made strong and for long service.

1-bus. size	\$2 00
1½-bus. size	2 50
2-bus. size	3 00
3-bus. size	4 25
4-bus. size	5 00



General-Purpose Basket



S. & W. Co.'s Combination Tool Basket

This is a white willow basket made light but strong, with three tool compartments and a large space for cut-flowers, etc. The tools shown in the illustration and selected from our best kinds are: 1 pair Goatskin Gloves, 1 pair S. & W. Co.'s Pruning Shears, 1 pair Ladies' Rose Shears, 1 pair Flower-gathering Scissors, 1 No. E 2-blade Budding Knife, 1 Solid Steel Trowel, 1 Slim Jim Trowel, 1 Gem Hand Fork, 1 Eureka Weeder, 1 Steel-Point Dibber and 1 Tube of Soft Tying Twine. Each tool is of good quality and all very useful.

Basket and Tools, complete.....	\$21 00
Basket, without Tools.....	9 00

Picking Basket

A handy basket for picking fruit and gathering eggs, etc. Best oak splint, stiff bail, light and well made. Indispensable on the farm.

½-bus. size	\$1 00
1-bus. size	2 00



Picking Basket



Flower and Fruit Basket

This basket is made light and especially for gathering cut-flowers, berries, grapes, asparagus, and small vegetables. A handy basket for carrying berry boxes while being filled. Handle has two galvanized braces. Light, strong and handy.

Size	Length	Width	Depth
Small size	18 in.	10 in.	3½ in.
Medium size	20 in.	12 in.	3½ in.
Large size	22 in.	14 in.	3½ in.

Bamboo Basket

Better known as Long Island Potato Basket. Woven split rattan; handle opening under rim. Well made. A very good basket for potatoes.

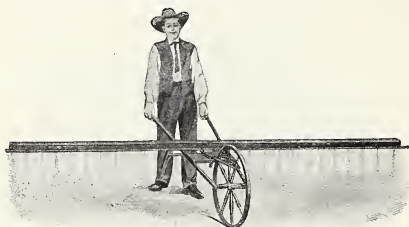
1½-bus. size	\$1 60
Bus. size	1 90



Bamboo Basket

Grass Seed and Fertilizer Sowers

PRICES SUBJECT TO
MARKET CHANGES

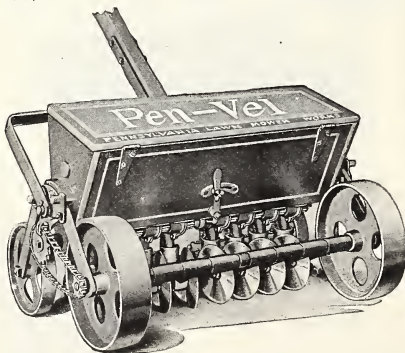


**S. & W. Co.'s No. 5 Wheelbarrow
Seed Sower**

For over thirty years this has been a valuable and indispensable broadcast Seed Sower. Over 200,000 have been sold. We recommend this practical machine for sowing all grass mixtures. It is provided with a double hopper, 14 feet in length and well balanced. One side of this seed hopper is adapted for all heavy seeds, such as timothy, clover, alfalfa, millet, etc. The opposite side sows the light, chaffy seeds, such as red-top, blue grass, bent grass, orchard grass, etc. The machine is simple to operate. A boy can work it. The operator can easily regulate the machine to sow any desired quantity to the acre. It does not clog and will sow evenly an area 14 feet wide. Full directions are in each hopper. Weight, 45 lbs. Price, \$18.50.

"Pen-Vel" Seeder

The "Pen-Vel" Seeder is producing first-class lawns all over the country, with a reduced cost and a saving in grass seed. This machine sows the seed in and not on top of the soil. Wind, heavy rains, and birds cannot disturb the seed. The soil is opened at a uniform depth, with eight discs, set 2 inches apart; to each disc is connected a spout, through which the seed passes from the hopper; the seed is evenly distributed, a lever attached to the hopper regulates the quantity of seed to be sown. Each disc is followed with a roller, which closes the furrow, compacts the soil and insures a good lawn. To secure a velvety lawn it is necessary to sow and cross-sow. The machine sows a strip 16 inches wide, and will finish an area of 50 x 150 feet in thirty minutes. In addition to all grass seeds, this machine will sow ground sheep manure, bone meal, screened wood-ashes and ground lime. Price, \$40.



FOR A GOOD LINE OF LAWN MOWERS AND LAWN
ROLLERS, SEE PAGES 131, 132 AND 133



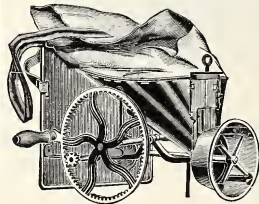
**Stevens' Fertilizer Sower for Top-Dressing
Lawns**

Has the same adjustment as the horse-power machine and will sow all commercial fertilizers. The hopper is 34 inches long and holds one and one-half bushels. Besides top-dressing lawns, greens, etc., it is a handy machine for all kinds of garden and field work. When two blades are removed, it will sow damp sand. Also is an excellent machine in the winter for covering icy roads and walks with sawdust, sand, etc. Shipping weight, 83 lbs. Price, \$35.



Excelsior Lime and Fertilizer Sower

The Excelsior Force Feed Lime and Fertilizer Sower is the most perfect machine on the market for sowing all brands of commercial fertilizers. Nitrate of Soda, Emerald Lawn Dressing, Pulverized Limestone, Sheep-Manure, Bone Meal, Dry Wood-Ashes, etc. Hopper holds 10 bushels. Actual width of sowing is 8 feet. Capacity from 50 to 4,500 lbs. The screen in the hopper and revolving agitator prevents clogging and packing of material on the feeds and insures an even distribution of fertilizers. All feeds can be instantly shut off or opened to any desired amount. Has two 30-inch wheels with 4-inch concave tires. Shipping weight 360 lbs. Price, \$70.



Cahoon's Improved Broadcast Seed Sower

This is the only Broadcast Seed Sower that has come to stay. It is well known as a practical and cheap broadcaster. Wheat, rye, oats, barley, hemp, timothy, millet and Hungarian grass are used in this Seeder. The operator can sow from four to eight acres an hour, walking at an ordinary gait. The seed is scattered from 8 to 20 feet on each side of the operator, according to the kind of seed. The heavy seed, like wheat, is scattered the greatest distance. Packed weight, 8 lbs. Can be sent by parcel post. Price, \$7.75.

Lawn Cleaners, Golf Sweepers, and Lawn Rollers

PRICES SUBJECT TO
MARKET CHANGES



Stump & Walter Co.'s Lawn Sweeper

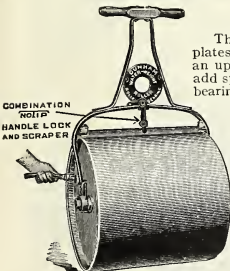
The S. & W. Co.'s Regular Lawn Sweeper in construction is the same as the Special Golf Sweeper, except that the alternating tufts of special steel wire are omitted in the Palmetto Brushes. This Sweeper is practically an all-year-round machine, for wherever there is a plane surface to be swept, whether sidewalk, porch, or warehouse floors, the S. & W. Co.'s Sweeper will do the work easily and quickly.

	Net weight	Gross weight	Price
24 in.	76 lbs.	96 lbs.	\$32 00
28 in.	84 lbs.	106 lbs.	40 00
Extras: Wheels \$1 each, with rubber tires.			5 00
Brush Reel, 24 inch, complete with brushes.			12 00
Brush Reel, 28 inch, complete with brushes.			14 00
Grass Box, 24-inch size.			8 00
Grass Box, 28-inch size.			9 00
Order repairs by both number and name when number appears on parts.			

S. & W. Co.'s Special Golf Sweeper

This machine is practically identical with the S. & W. Co.'s Lawn Sweeper, except that the brushes have alternating tufts of steel wire arranged so that a tuft of palmetto follows directly behind a tuft of wire. Excellent for putting-grounds, tennis-courts, etc.

	Net weight	Gross weight	Price
24 in.	84 lbs.	106 lbs.	\$35 00
Extra Brush Reels, complete.			10 00



The Dunham "Water-Weight" Lawn Roller

The Dunham Water-Weight Roller is a most satisfactory Roller. The construction consists of three heavy steel plates, pressed together and electric-welded, forming one solid steel drum with no leaky joints; handles are always in an upright position, as shown in the illustration, and held in this position with counterbalance weights, which also add speed and ease of operation to the Roller. Axles are of high-carbon steel, perfectly round, and revolve in roller bearings, the same as used in automobile construction. This feature alone has proved this Roller to operate with 44 per cent less energy or power than is required to operate other Rollers. The proper way to fill this Roller is shown in the illustration. The weight of each Roller empty and filled is given with the diameter and length below.

No.	Diam.	Length	Sec.	Weight	Weight	Price
	in.	in.	tions	empty	Filled with water	
WB3	14	20	1	60	200	\$24 00
WB5	18	24	1	75	300	29 00
WB7	24	24	1	110	500	35 50

Cast-Iron Hand Lawn Rollers

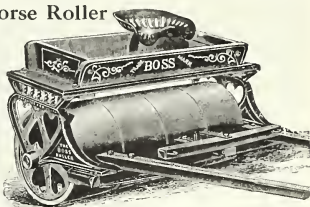
Made in one, two, and three sections. The face of each Roller is made smooth, with outer edges rounded to avoid cutting the lawn or garden. Roller-bearing, outside counter-balancing weights to keep the handles in an upright position. The Rollers of two or more sections are preferable, as they will not injure the grass when turning. The best one-man Rollers are those averaging from 250 lbs. to 500 lbs.

No.	Sections	Diam.	Length	Weight	Price
	in.	in.	in.	lbs.	
1	2	15	15	150	\$20 00
2	3	15	22	200	27 00
4	2	20	20	250	33 50
7	2	20	24	300	39 00

No.	Sections	Diam.	Length	Weight	Price
	in.	in.	in.	lbs.	
8	3	20	30	350	\$46 50
9	2	24	20	400	53 00
10	2	24	24	450	59 50
13	2	28	24	500	66 00

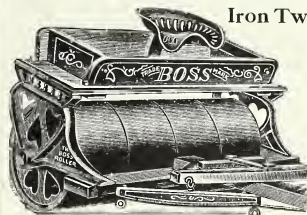
Iron One-Horse Roller

This machine is designed to meet the demand for a one-horse Roller. The construction is the same as the two-horse Roller, except that it has the shaft in place of the pole. Each section is turned smooth on the surface with outer edges beveled. Quality and finish are the same as of the two-horse Roller and also include the weight, box, seat, and shaft. They give long and excellent service.



No.	Diameter	Length	Sections	Weight	Price
60	20 in.	48 in.	4	950 lbs.	\$132 00
61	20 in.	60 in.	5	1,150 lbs.	152 00
62	24 in.	48 in.	4	1,200 lbs.	163 00
63	24 in.	60 in.	5	1,450 lbs.	192 00
65	28 in.	48 in.	4	1,350 lbs.	181 00

Iron Two-Horse Roller



Suitable for roads, lawns, and golf-courses. This Two-Horse Iron Roller is manufactured to do heavy work. Has been used with excellent success on golf-courses and private estates, on roads, lawns, and putting-grounds. This is the best draft Roller on the market. It has babbit metal bearings, pulls directly from the axle, and is so perfectly balanced that there is no weight on the team. It is equipped with a substantial weight box for additional weight, seat, and pole. Each section is turned smooth on the surface with outer edges beveled. This Two-Horse Roller is superior in quality, construction, and finish.

No.	Diameter	Length	Sections	Weight	Price
71	20 in.	72 in.	6	1,300 lbs.	\$168 00
72	24 in.	60 in.	5	1,450 lbs.	182 00
73	24 in.	72 in.	6	1,700 lbs.	226 00
75	28 in.	60 in.	5	1,650 lbs.	220 00
76	28 in.	72 in.	6	1,950 lbs.	252 00



Cast-Iron Hand Lawn Rollers

PRICES SUBJECT TO MARKET CHANGES

The Stumpp & Walter Co. Ball-Bearing Lawn Mower

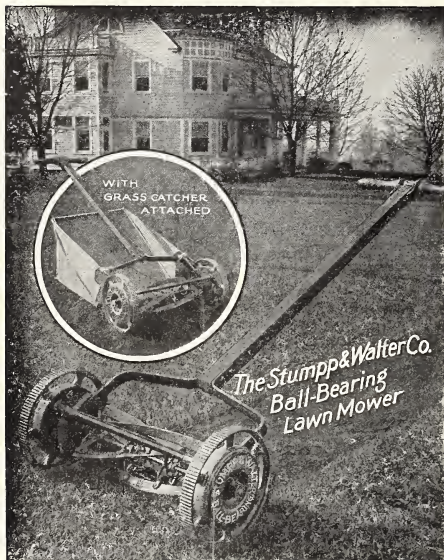
ALWAYS READY, EASY-RUNNING, NOISELESS, SELF-SHARPENING, PERFECT ADJUSTMENTS. WILL CUT GRASS 6 INCHES HIGH.

The Stumpp & Walter Co. Ball-Bearing Lawn Mower is universally a family Mower. Most anybody—man, woman or child—can use it with little exertion. It is a high-grade standard machine, adopting only the best features in its construction. The cutting parts are made of oil-hardened water-tempered crucible tool-steel, and are positively self-sharpening. The knives and blade will hold a durable edge and will not dull as the softer cutting parts of other Mowers do. The lawn is shaved smooth and even and without some corrugations. The simple adjustment sets the machine to shave the lawn to $\frac{1}{2}$ inch or up to $1\frac{1}{2}$ inches as may be desired. See the illustration which is a photograph of actual results. The expense of mowing a lawn is reduced to a minimum with the S. & W. Co. Lawn Mower. The durability of this Mower is unquestionable. It does not have to go to the repair shop each season as do frequently the lower-priced Lawn Mowers.

The construction of this Lawn Mower has overcome the bobbing up and down and gouging that is common to some hand Mowers. The axle revolves in extra-large balls placed in hardened tool-steel cones and cups, and is driven with two gears by two 10-inch traction wheels. These wheels are made durable and are not easily broken.

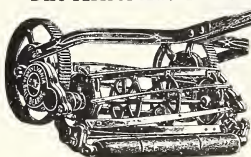
This Lawn Mower is made to give good and long service and with ordinary good care will last from five to ten years. We take the liberty to recommend the S. & W. Co. Ball-Bearing Lawn Mower to be the best all-round Lawn Mower of its type manufactured. We guarantee it to give entire satisfaction. We supply this Lawn Mower in four sizes.

Size	Gross weight	Net weight	Price	Grass Catcher
15-inch cut	65 lbs.	50 lbs.	\$21 00	\$4 75
17-inch cut	67 lbs.	52 lbs.	23 50	4 75
19-inch cut	71 lbs.	43 lbs.	20 50	5 25
21-inch cut	76 lbs.	48 lbs.	29 00	6 00



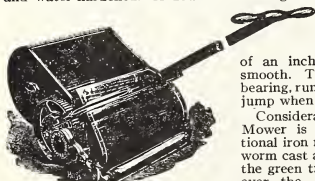
The Stumpp & Walter Co. Ball-Bearing Lawn Mower

The Aristocrat Golf Mower Ball-Bearing



The Aristocrat Golf Ball-Bearing

The Aristocrat is the acme of putting-green Mowers. Extreme tests have proved this machine superior to all other Mowers in keeping the greens in first-class condition. The Aristocrat was specially designed for putting-greens. Consideration was exercised in the construction of this machine to give the longest service, ease of adjustment, and the best possible satisfaction that can be obtained from a Golf Mower. The life of this Mower is long compared with the other styles of Golf Mowers. The seven revolving blades and the bottom knife are the best crucible tool-steel, oil-tempered and water-hardened. A double train of gears drives the revolving blades from two $\frac{9}{16}$ -inch traction wheels. The greens are shaved to $\frac{1}{4}$ of an inch and left even and smooth. The Aristocrat is ball-bearing, runs easily, and does not jump when starting.



The Aristocrat with Grass Box Attached

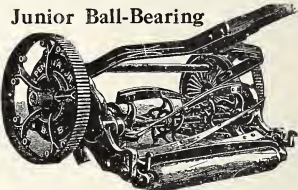
Considerable weight of the Mower is carried by the sectional iron roller, which rolls the worn cast and assists in keeping the green true and even. Whenever the Aristocrat has been given a thorough test, it has been accepted and given the preference. The illustration with the Grass Box attached shows the Aristocrat complete, and the way it should be operated to obtain the best results.

The Aristocrat is used exclusively and highly recommended by many of the best golf, tennis and cricket clubs.

Size	Gross weight	Net weight	Price	Grass Box
17-inch cut	102 lbs.	72 lbs.	\$38 00	\$8 00
19-inch cut	104 lbs.	76 lbs.	42 50	8 00

Pennsylvania Junior Ball-Bearing

The perfection of Lawn Mowers. The Pennsylvania Junior has all the good features incorporated in a perfect Lawn Mower. The five revolving blades are driven by a triple set of gears and a 10-inch traction wheel from each side. The revolving blades and the bottom knife are the best crucible tool-steel, oil-tempered and water-hardened. The Pennsylvania Junior is capable of cutting grass 6 inches high. Will not jump, as many of the lower-priced machines do.



Pennsylvania Junior Ball-bearing

Size	Gross weight	Net weight	Price	Grass Catcher
15-inch cut	71 lbs.	48 lbs.	\$32 50	\$4 75
17-inch cut	74 lbs.	51 lbs.	37 00	4 75
19-inch cut	77 lbs.	53 lbs.	41 00	5 25
21-inch cut	80 lbs.	55 lbs.	45 50	6 00

Pennsylvania Lawn Trimmer Ball-Bearing

Made to meet the demand for a serviceable tool to take the place of grass shears and other devices for cutting grass left at the edge of lawns, around flower-beds, etc. Will cut to within $\frac{3}{4}$ of an inch of walls, fences, walks, etc. Will mow any border wide enough to run one wheel on. High 8-inch wheel; runs easily; self-sharpening. Width of cut 6 inches; gross weight 26 lbs.; net weight 20 lbs. Price \$12.

Townsend Flyer Mower

The best low-priced Mower made with ball-bearings. Four revolving blades, flexible bottom knife, self-sharpening. Made of best materials. A very easy-running and light Mower for ladies and children to operate.

Size	Price	Grass Catcher
14-inch cut	\$15 00	No. 1 \$3 00
16-inch cut	16 50	No. 2 3 25
18-inch cut	18 00	No. 2 3 50

Moto-Mower
TRADE MARK

POWER LAWN MOWER

A simple, practical Grass Cutter for the Small Lawn Owner, as well as the Large Estate Owner or Cemetery

Simple

Requires very little attention, few parts; no gears and no exposed parts to accumulate oil and grit; no oil-holes to clog; few adjustments. Has automatic release between motor and reel.

Light

Weights 160 pounds, moves easily, and will cut over ground too soft for heavy power or horse-drawn mower

Sturdy

Strongly built of best material, carefully machined and put together. Guaranteed against all defects in material and workmanship.

Economical

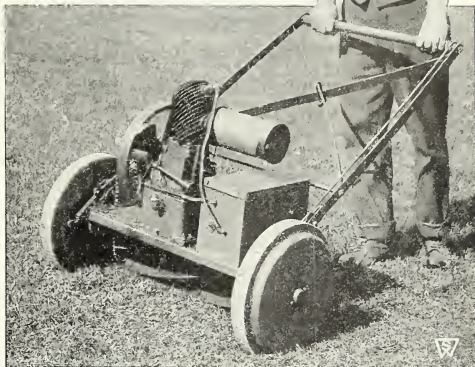
Saves time and worry. Low in first cost; lower in upkeep. Burns one-eighth gallon of gas per hour.

Effective

Easily operated and perfect control; will cut your lawns, around trees and shrubs, in nooks and corners; also terraces; in fact any place the ordinary hand mower can be used.

Operation

Unlike any other power motor, there are no gears or clutches used in the Moto-Mower. The power from the engine is transmitted direct to the cutting reel through chain and sprockets. The friction driving rollers on the ends of the reel shaft are brought gently into engagement with flange on the inner side of the wheels by simply rotating the handle bar. This permits the machine to be started or stopped without shock or jar and allows you to turn to right or left or stop instantly—thus you have at all times a perfect control over the machine when it is rolling over the ground under its own power. You also have the very great advantage of being able to roll the Moto-Mower over the ground manually when it is necessary to cut in restricted places.



SPECIFICATIONS

Cut. Special 24 and 30 inches. Standard 27 inches.

Power. 1 H. P. Air-cooled gasoline motor, reversible.

Ignition. Jump-spark; Ford unit-coil and four dry cells.

Radiation. Air-cooled.

Speed. 2 to 3 miles per hour, controlled by governor.

Control. Handle bar.

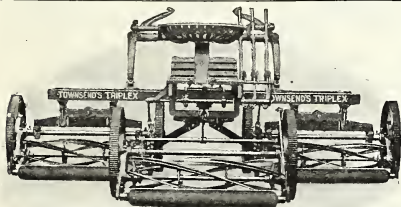
Drive. Sprocket and chain to reel. Thermoid friction rollers on end of reel shaft to side wheels; automatic release.

Friction Release. Between motor and reel.

Bearings. Tunklen Roller and Bound Brook bronze and graphite, oilless bearings.

Lubrication. Moto-Mower special oil in motor, cup-grease in all other bearings.

PRICE: Standard, 27-inch size \$275. Write for prices on 24- and 30-inch sizes



Townsend's Triplex Lawn Mower

Townsend's Triplex Lawn Mower

This Triplex is much lighter than the ordinary horse lawn mower, but cuts three times as wide a swath. One man and one horse, with a Triplex, will cut more grass in a day than three men and three horses with three ordinary horse lawn mowers, thus saving the wages of two men, the cost of two horses, and the cost of their care and keep.

Here is a mower that will cut a swath 86 inches wide. It floats over the uneven ground as a ship rides the waves. One mower may be climbing a knoll, a second may be skimming the level, and a third may be paring a hollow.

Price, \$400, f. o. b. factory. Weight 600 pounds. Extra Unit, \$100, f. o. b. factory.



Leather Horse Boots, Quality Kind

Easily attached to the horse's feet; prevent marring the lawns. Frequently after rains, or in the spring, the lawns are soft and easily cut up. Use a good leather boot and save the lawn. Quality Kind are made good. Double-thick soles and uppers reinforced; heavy parts put together with copper rivets. Small size, \$18; medium size, \$19; large size, \$20.

PRICES SUBJECT TO MARKET CHANGES

Rubber Hose, Menders, Nozzles and Lawn Sprinklers

PRICES SUBJECT TO MARKET CHANGES

RUBBER HOSE



S. & W. Co.'s Special Brand (Wayahead). Surpasses all the cheaper grades of Hose. Its durability is not excelled by much of the higher-priced Hose. It is three-ply, seamless, and non-kinkable. Standard lengths, $\frac{3}{4}$ -inch bore, 25 ft., \$5; 50 ft., \$9.



Electric. Three-ply, non-kinkable, molded Hose. The strength and durability of this Hose place it with the very best grade of Hose manufactured.

Standard lengths, $\frac{3}{4}$ -inch bore, 25 ft., \$6.50, 50 ft., \$12.50. Standard lengths, $\frac{1}{2}$ -inch bore, 25 ft., \$6, 50 ft., \$11. Other lengths, $\frac{3}{4}$ -inch bore, cut and coupled, 25 cts. per ft. Other lengths, $\frac{1}{2}$ -inch bore, cut and coupled, 25 cts. per ft.

Golf-Course. Four-ply heavy duck Hose, with exceptionally strong black tube and white cover. Especially adapted for use on golf-courses, tennis-courts, and cricket-creases. This is guaranteed for any pressure and hard work as usually found on golf-courses and private estates. Will stand up and give satisfaction under conditions where ordinary garden Hose has failed.

Standard lengths, $\frac{3}{4}$ -inch bore, 25 ft., \$7.50, 50 ft., \$15. Standard lengths, 1-inch bore, 25 ft., \$10, 50 ft., \$20.

HOSE NOZZLES

Stott's. A Nozzle that has become a favorite among rose-growers, etc., for exterminating red spider. Splendid Nozzle for reaching under the foliage; gives a very fine, misty spray. Single, \$1.75, double, \$3.

Mistry Jr. Can be used for spraying white-wash, \$2 each.



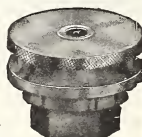
Magic. Brass Hose Nozzle, $\frac{3}{4}$ -inch. Has a shut-off, a stream, and a rose spray. With out rose, \$1.25; with rose, \$1.60.

No. 191. The most efficient and simplest in construction of any shut-off Nozzle. Has fewer parts and is less liable to get out of order. \$1.50 each.

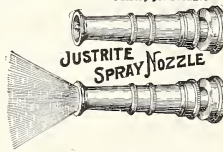
Justrite Spray. A very popular adjustable Nozzle. It gives a copious spray or a well-defined full stream. Has a positive shut-off, by turning the barrel of the nozzle. \$1.

Bordeaux Spray Nozzle. A good nozzle for whitewash and all heavy spray materials. \$1.50.

HOSE COUPLINGS, Lightning. $\frac{3}{4}$ -inch, 50 cts. each. Regular, $\frac{1}{2}$ -inch, 35 cts.; $\frac{3}{4}$ -inch, 40 cts. each.



Mistry Jr. Nozzle



JUSTRITE SPRAY NOZZLE



Perfect Clincher Mender

HOSE MENDERS

Cooper's Brass. $\frac{1}{2}$ - and $\frac{3}{4}$ -inch, 12c. each. \$1.20 per doz.; 1-in., 15c. ea., \$1.70 per doz.

Perfect Clincher. $\frac{1}{2}$ - or $\frac{3}{4}$ -inch, 15 cts. each, \$1.50 per doz.

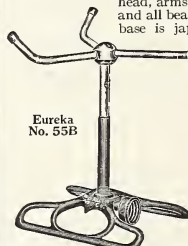
Hudson. $\frac{1}{2}$ - or $\frac{3}{4}$ -inch; state size. Box of 6 tubes and 20 bands, with pliers, \$1.

Sykes Hose Holder

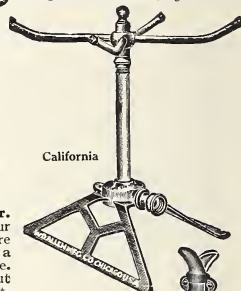
A simple and inexpensive device for holding the hose. With this the nozzle can be placed at almost any angle. 50 cts.

LAWN SPRINKLERS

Eureka No. 55B Lawn Sprinkler. The Eureka Sprinkler will revolve under extremely low pressure, and is a first-rate article. The head, arms, and upper stem are nickel-plated brass and all bearing parts of the Eureka are of brass. The base is japanned black and has a loose swivel. Height, 10 inches. \$2.50.



Eureka No. 55B



California

California Lawn Sprinkler.

Is made with three and four arms. Arms and head are polished brass. Attached to a sled base, 10 inches square. Can readily be drawn about the lawn and will not upset.

With 4 arms, \$2.50. With 3 arms, \$2.25.

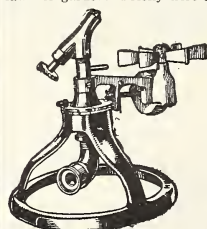
Maid-of-the-Mist Sprinkler. An effective device for sprinkling lawns, gardens, or flower-beds. The water flows with unimpeded force, and is divided and deflected by the two lips of the swivel piece, which it causes to revolve rapidly, scattering the water in fine drops and evenly over a circular area of 25 feet. It works more satisfactorily with a very low pressure of water than any Sprinkler we know of. With spur, \$1.25, mailed 10 cts. extra. With sled (recommended) \$1.75.



Maid-of-the-Mist

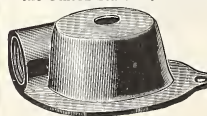
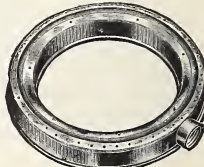
The Dayton Rotary and Oscillating Sprinkler

The Dayton is the most practical, durable, and efficient Sprinkler devised for watering lawns or gardens and is now being used by thousands of lovers of a beautiful lawn or garden. Briefly here are the points of interest:



The lawn sprinkler attaches to your hose. The garden type attaches to a pipe riser as shown in cut. It sprinkles in a circle. It sprinkles in a half-circle. It sprinkles from a 3-foot radius to a 40-foot radius. It sprinkles every inch of the ground. It is better for your lawn or plants than sprinkling with a hose. It operates on any pressure from 15 pounds up. The nozzle can be adjusted to any kind of stream. It pays for itself in water saved and convenience. It is made of the best brass, aluminum, and German silver. \$6.

Ring Lawn Sprinkler. The S. & W. Co. Ring Sprinkler is not to be compared with the Cheaper Ring Sprinklers. It is made of brass, firmly constructed and guaranteed to stand the water-pressure of any municipal water-works in the United States. \$1.



C. B. G. Sprinkler

The C. B. G. Sprinkler

Cheap but Good

Is made on the well-known principle of the tangential spray. Nothing to get out of order. Will last a lifetime. It is easily drawn about the lawn without shutting off the water. 75 cts. each, \$7.50 per doz.



KEY DUSTER GUN

It's So Quick and Easy—No Handling—No Mixing—No Weighing—No Measuring of Chemicals and Without the Use of Water.

Key Duster automatically opens Insecticide and

Fungicide Cartridges, effectively spreading the material just as required. Makes successful gardening a pleasure. Simply compare the ordinary method of mixing wet sprays or filling loose duster devices with the new patented up-to-date Key Duster simplicity and Cartridge convenience. No longer need you neglect your garden, flowers or fruit because of such troublesome old-fashioned practices. You'll enjoy

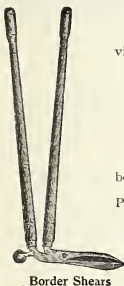
More Vegetables—Better Fruit Beautiful Flowers or Shrubs

By using specially prepared Insecticide and Fungicide materials approved by leading agriculturists and agricultural experiment stations—all in handy sealed cartridges ready to apply instantly without waste.

Cartridges to Use	Names	Each	Doz.
For Vegetables and Small Fruit	B. A.	\$o 15	\$1 80
For Flowers and Shrubs	Oflora	15	1 80
For Fruit and Vegetables nearly ripe	Hellebore	20	2 40
For Aphids and many soft bodied insects	Kaphis	15	1 80
For Orchard Fruit	L. A. S.	15	1 80

Key Duster Gun (length 36 in., diam. 2 1/2 in.) \$5 each.

Order your Gun now. You'll enjoy its ease and it will save and serve you too—year after year. A complete garden spray calendar is supplied with every gun.



Hedge Shears

Hedge Shears

Solid steel blade, crucible tool-steel, tempered to hold an edge. Give good service. Shears with notch are the best for cutting heavy stems of hedge plants.

Plain	Price	With Notch	P. P.
8-in. blade	\$3 00	8-in. blade	\$3 25 4 lbs.
9-in. blade	3 25	9-in. blade	4 00 4 lbs.
10-in. blade	4 00	10-in. blade	4 50 5 lbs.
Ladies'	2 50		

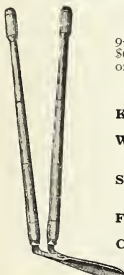
S. & W. Co.'s Grass Shears

A very simple but practical locking device holds the Shears together. Made of the best crucible tool-steel; polish finish. One size only, 6 1/2-in. blade, \$2.

Western Grass Shears. Made of good-quality tool-steel. A one-piece Shears. Plain finish, 6-in. blade, \$1.50. A leather shield is furnished with each Shears.

Grass Edging or Border Shears

Designed to trim the overhanging grass on borders around flower-beds and walks. 9-in. blades of high-grade tool-steel; polished handles and blades. Without wheel, \$5.50; with wheel, \$6.



Lawn Shears

Lawn Shears

Designed to cut grass under hedges, fences, grape arbors, and flower-beds or shrubs. 9-in. blades of high-grade tool-steel, polished handles, and blades. Without wheel, \$6; with wheel, \$6.50. Notice: When shipping the above Shears, unless stated on orders, we send Shears with wheel.

Pruning Shears

Kunde. We regret being unable to offer any of this make of Shears for this year. Owing to the war none can be imported.

Wiss. Made in America. Crucible tool-steel; blades are detachable; tempered to hold an edge; will not break. Made in two sizes. 9-in. \$4.50; 10-in. \$4.75. Extra springs, 50 cts. each; extra blades, \$1.20 each.

S. & W. Co.'s Solid Steel. Crucible tool-steel. Blade and handle are one piece of polished steel; a ratchet nut keeps the Shears properly tightened; will not break; excellent finish. Made in three sizes. 8-in. \$2.50, 9-in. \$2.75, 10-in. \$3.

French. Made of good-quality tool-steel; flat roller spring; works easily and cuts well; detachable blades; plain finish. Made in two sizes. 8-in. \$3, 9-in. \$3.50.

California. Crucible tool-steel blade; malleable handle; Japan finish. A very good Shears for grape-vines and shrubbery. \$1.25.

Ladies' Nickel-plated. Light, practical, handy to use on roses and shrubbery. 6-in. \$1.75.

Melrosine

A REAL REMEDY FOR ROSE BUG TROUBLES

Can be used in any spray-pump, but we recommend a good pressure and a fine mist. In general we advise the dilution of 1 pint and 3 1/2 ounces of Melrosine with 3 gallons of water, which is in the proportion of 20 to 1.

Where, however, the bug is not especially virile, a somewhat weaker solution, 25 to 1, may be used. Even the stronger solution is entirely harmless to flowers and plants.

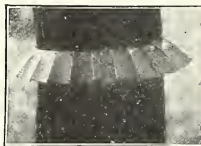


Sample Size \$o 50	Quart \$1 75
Pint can 1 00	Half-gallon 3 25
Gallon 6 00

Standard Tree Bands

The first effective device for protecting trees from caterpillars, worms, and insects.

These Tree-bands are made of heavy waterproof paper, with a sticky, repellent material under the umbrella-like canopy. This canopy protects the "gun-stickum" from the weather, as well as from dirt, dust, and falling leaves. No climbing caterpillar or insect can pass this sticky material. It catches them and holds them if they set foot upon it. Put up in rolls, 25-foot lengths, flat when boxed, mushroom-shaped when tacked in trees.



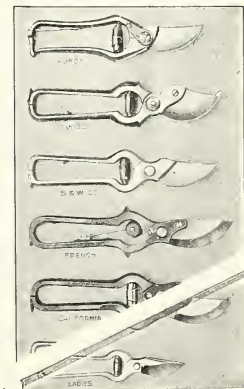
25-ft. roll \$1 75 | 100-ft. roll \$6 75



Hedge Shears



Grass Shears



Miscellaneous Garden Supplies

PRICES SUBJECT TO
MARKET CHANGES

- Aprons, Gardeners'.** English made. Each
- Fine shalloon, 39-in., with bib and pocket.....\$3 50
 - Fine shalloon, 36-in., with bib and pocket.....3 25
 - Heavy serge, 39-in., with bib and pocket.....3 50
 - Heavy serge, 36-in., with bib and pocket.....3 25
- Bamboo Canes.** See Plant Stakes, page 137.
- Broom, Bamboo.** Excellent for sweeping lawns, putting-greens, and walks. Made of bamboo. \$2 each, \$20 per doz.
- Carnation Supports.** Model Extension, 2-ring, \$1 per doz., \$7.50 per 100; 3-ring, \$1.25 per doz., \$8.50 per 100.
- Carnation Bands, Rubber.** To prevent splitting of calyx. 25 cts. per oz.
- Clips, Eureka.** For fastening rose and chrysanthemum wire stakes. \$1.40 per box of 500, \$2 per box of 1,000.
- Corn Knife.** For cutting cornstalks or heavy grass. 75 cts. each, \$7.50 per doz.
- Fumigators.** See page 142.
- Gloves.** Made substantially of horse-hide; heat- and waterproof; made with gauntlets. Good gloves for pruning and general farm-work.
- No. 131. All leather. \$4 per pair.
 - No. 186. Ladies'. \$3 per pair.
- Gardeners' Gloves.** Made of heavy goat-skin. \$2.50 per pair.

Glazing Materials

Permanite is a glazing compound composed of asbestos fiber and special long-life, weather-resisting, non-drying oils, which always keep it in an elastic condition and never allow it to harden. Little needs to be said about the addition of asbestos as the advantage of using this material—its indurability and ability to resist heat and cold—are too well known. 1 gal. \$2.50, 5 gals. \$2.40 per gal., 15 gals. \$2.25 per gal., 35 gals. \$2.10 per gal., 60 gals. \$2.10 per gal.

Permanite Gun. This Gun makes application of Permanite easy. Further particulars on request. \$6 each.

Putty Bulb, Scollay. A useful tool similar to the well-known Scollay Sprinkler, with a tube instead of spray for applying liquid putty in glazing greenhouses. \$1.50.

Glazing Points, Van Reyser's. No rights or lefts. No. 2, large, for single- and double-thick glass for greenhouses and skylights. Box of 1,000, 75 cts.; 5,000 for \$3.25.

Red Devil Glass Cutter. 30 cts., 50 cts., and 75 cts.

Putty Knife. No. 100. A very good tool. 50 cts. each.

Grafting Wax. ¼lb. 20 cts., ½lb. 35 cts., 1 lb. 65 cts.

Knives, Turf-Edging, Budding and Pruning

Solid Welded Steel Edging. Socket handle; made of the very best steel; imported English. 8-inch, \$3.50; 9-inch, \$4.

Half-Moon. Solid steel, with a polished handle.....\$1 00
Without handle.....75

Pruning—

- No. 1. Cocoa handle, 1 blade, 5-inch.....\$1 50
- 2. Ebony, 1 blade.....1 25
- 3. Stag, 2 blades.....1 50
- 4. Cocoa, 1 blade.....2 25
- 5. Cocoa, 2 blades.....3 25

Budding—

- No. 1. Ivory handle.....\$3 00
- 2. Bone, S. & W.....2 00
- 3. Ivory, S. & W.....2 25
- 4. Ivory.....2 50
- 5. Ivory, 2 blades.....2 75
- 6. Bone, 1 blade.....1 50

Hotbed Sash and Frames

Stumpp & Walter Co.'s Standard Frames are made of selected Gulf Cypress, free from knots and sap. Frames are dressed and finished with two coats of gray paint. The four corners are securely held with angle irons and bolts. Easily taken apart when necessary to store or ship them.



The rails between the sash are rabbeted and grooved for drip, and dovetailed into the sides. The back depth of frame is 16 inches, front depth 8 inches. This provides the necessary pitch to carry away rain and snow. Frames are made for 2, 3, 4, and 5 sash. When frames for only one sash are desired, we recommend the frames used for half-sash.

HOTBED SASH AND FRAMES, continued

- No. 2. Frame. For two 3 x 6 ft. sash.....\$17 00
- No. 3. Frame. For three 3 x 6 ft. sash.....22 50
- No. 4. Frame. For four 3 x 6 ft. sash.....29 00
- No. 5. Frame. For five 3 x 6 ft. sash.....35 50

Single Light Sash. Stumpp & Walter Co.'s Single Light are standard size, 3 x 6 feet. Made of selected cypress, 1 ½ inch thick, free from knots and sap. Mortised and leaded joints. Three rows of 10 x 12-inch double-thick glass, iron cross-bar across the center. Made extra strong and durable. Finished with two coats best white lead 150 each, \$110 per doz.

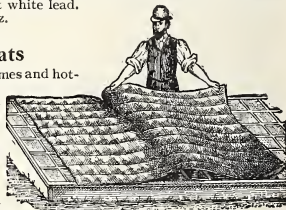
Double Light Sash. Stumpp & Walter Co.'s Double Light or Double-Glazed Sash are made with two layers of glass, providing an air chamber or insulator, which keeps the warmth in and the frost out. With the Double Light Sash it is not necessary to use mats or covering in severe cold weather, thus eliminating the expense of mats and the regularity of covering and uncovering the sash. In locations where snow is frequent or stays long it does not interfere with the Double Light Sash, providing the snow is cleaned off. The plants receive the benefit of the sunlight and grow uninterrupted. The sash are standard size, 3 x 6 feet, 1 ½ inch thick. Made of clean Gulf Cypress, free from knots and sap. Mortised and leaded joints. Three rows of 10 x 12-inch double-thick glass. Strengthened with a ¾-inch iron bar across the center and finished with two coats of best white lead.

\$17 each, \$196 per doz.

Hotbed Mats

For protecting coldframes and hotbeds. Warmly lined with waste wool and cotton, which are quilted in to hold position.

- No. 1. 40 x 76 in. Burlap on one side, \$3 each, \$30 per doz.
- No. 1. 76 x 76 in. Burlap on one side, \$5 each, \$50 per doz.



Owing to the present condition we are unable to supply waterproof duck mats.

Simplex Waterproof Plant Labels

The writing is protected by the transparent cover and will last indefinitely if done with lead pencil.

- No. 1. 3 x ¼ in.....\$0 25 100
- No. 2. 4 x ¼ in.....50 4 00
- No. 3. 5 x 1 in.....75 6 00
- Label Varnish.** Waterproofs wooden labels. ½pt. 60 cts., pt. \$1.10, qt. \$2.10, ½gal. \$3.90, gal. \$7.50.

S. & W. Co.'s Permanent Label Holder

This Label Holder is finished with an index card covered with mica, making it absolutely waterproof; finished in black. The best of all Label Holders. Size 8 inches, 30 cts. each, \$3 per doz., \$22.50 per 100. 18 inches. 40 cts. each, \$4 per doz., \$39 per 100.

Pot or Garden Labels

- Wooden—**
- 4-inch.....100 \$0 50 100 \$2 50
- 4½-inch.....55 1 60 2 80
- 5-inch.....75 2 00 3 25
- 6-inch.....80 2 25 4 00
- 8-inch.....2 00 7 50 14 00
- 10-inch.....2 50 8 50 16 00
- 12-inch.....3 00 10 00 19 00
- Copper-wired—**
- 3½-inch.....80 2 25 4 00

Zinc Garden. These are unsurpassed, being neat, durable, and indestructible. The ink marks a jet-black, which remains distinct. Use a clean quill or pointed stick.

- No. 1. 4½ x 3½ in. 50 \$3 50
- 2. 4 x 2½ in. 40 2 75
- 3. 4 x 3 in. 45 3 00
- 4. 5 x 1 in. 40 2 75
- 5. 3½ x 2½ in. 50 3 50
- No. 6. 2½ x 2 in. 50 \$2 25
- 7. 2½ x ¾ in. 30 2 00
- 13. 2½ x 1½ in. 35 2 25
- 14. 1½ x 1½ in. 35 1 75
- 15. 4½ x 4½ in. 35 2 25

Miscellaneous Garden Supplies

PRICES SUBJECT TO
MARKET CHANGES

Label Pencils. Permanent writing on wooden labels. 15 cts. each, \$1.50 per doz. X-L-All Indelible. 25 cts. each, \$2.50 per doz.

Label, Indelible Ink. For zinc labels. 40 cts. per bottle.

Nails, Vine or Wall. Made with soft, pliable, lead clip for fastening vines to walls, houses, trellises, etc. Will give before cutting vines as they grow. 1½-in. \$2.50 per 100; 1½-in., \$3 per 100; 2-in., \$3 per 100.

Netting. Bird netting to protect all small fruits and vegetables. A good quality of cotton netting, 1-inch mesh, only in 20- and 30-ft., widths and of any reasonable length. \$2 per 100 square feet.

Paper—

Wax. 24x36. Ream.....\$5 50

13x24. Ream.....\$5 50

Tissue. 24x36. Ream.....\$5 50

Wrapping. In rolls. Widths 24 in., 30 in., 36 in., 48 in. Weight approximately 50 lbs. Kraft or Manila, by doz. cts.

Manila. 24x36. Ream.....\$6 00

Wrapping. 40x48. Ream.....23

Plant Sprinkler, Scollay. Made of the best rubber. Straight neck, \$1.50; angle-neck, \$1.60.

Post-Hole Diggers, Iwan's Split Handle. 6 inch, \$2.50.

Perfection. \$1.50.

Gibb's Lock Lever. \$1.75.

Post-Hole Auger. 6- and 7-in., \$1; 8- and 9-in., \$1.25.

Iwan Well Digger. 6-in., \$1.85; 8-in., \$2.15; 9-in., \$2.50.

Raffia, Natural. For tying plants. Lb. 50 cts., 5 lbs. \$2.

Colored. All colors. For basket-making. Lb. \$1.50.

Seythe Stones, Genuine English. Round, tapering. 75 cts. each.

Genuine Carborundum. No. 190, 75 cts. No. 192, \$1.

Red-End. 15 cts. each, \$1.50 per doz.

Seythe Rifles, Emery-coated. 25 cts. each, \$2.50 per doz.

Scissors, Grape-thinning. \$1.50; **Flower-gathering.** \$2.

Screens. Handy for ashes, coal, sands, gravel, etc. Extra-heavy wire; spruce frames. Small size, 25 x 62 inches, \$14; large size, 28x66 inches, \$15.25. State whether ¼-, ½-, ¾-, or 1-inch mesh is desired.

Silkline. See Twines.

Shears. See page 135.

PLANT STAKES AND SUPPORTS

Bean Poles. Excellent for staking Pole Lima Beans. 25 cts. each, \$2.75 per doz., \$20 per 100.

Plant, Tapering, Green—

Doz.		100	Doz.		100	
1 1/2 feet.....	\$0	40	\$2	50	3 1/2 feet.....\$1 75	\$11 00
2 feet.....		65	4	50	4 feet.....	2 00 13 00
2 1/2 feet.....	1	00	6	50	5 feet.....	2 40 17 00
3 feet.....	1	40		0 00		

Carnation Supports.

See page 136.

Chinese Canes.

These are genuine Chinese canes, very strong and heavy.

100	1,000	100	1,000		
4 feet, heavy.....	\$2 00	\$16 00	7 feet, heavy.....	\$7 00	\$70 00
4 feet, heavy.....	4 00	32 00	8 feet, heavy.....	8 00	80 00
5 feet, heavy.....	5 00	40 00	10 feet, heavy.....	9 00	90 00
6 feet, heavy.....	6 00	60 00			

Japanese Canes.

Japanese Cane. For staking plants and trees.							
100		1,000		100		1,000	
6 feet.....	\$3 00	\$25 00	14 feet.....	\$25 00	\$225 00		
8 feet.....	5 00	45 00	16 feet.....	35 00	275 00		
10 feet.....	6 50	60 00	18 feet.....	40 00	300 00		
12 feet.....	20 00	175 00	20 feet.....	50 00	400 00		

Dahlia Poles—

Doz.		100	Doz.		100
3 feet.....	\$2 20	\$14 50	4 feet.....	\$2 70	\$18 00
3½ feet.....	2 40	16 00	5 feet.....	3 60	24 00
			6 feet.....	4 50	29 00

Galvanized Wire—

	100	1,000		100	1,000
3 feet.....	\$3 75	\$32 00	4½ feet.....	\$5 00	\$45 00
3½ feet.....	4 30	36 00	5 feet.....	5 50	50 00
4 feet.....	4 75	42 00	6 feet.....	6 50	60 00
4½ feet.....	5 00	45 00	7 feet.....	7 50	70 00
5 feet.....	5 50	50 00	8 feet.....	8 50	80 00
5½ feet.....	6 00	55 00	9 feet.....	9 50	90 00
6 feet.....	6 50	60 00	10 feet.....	10 50	100 00
6½ feet.....	7 00	65 00	11 feet.....	11 50	110 00
7 feet.....	7 50	70 00	12 feet.....	12 50	120 00
7½ feet.....	8 00	75 00	13 feet.....	13 50	130 00
8 feet.....	8 50	80 00	14 feet.....	14 50	140 00
8½ feet.....	9 00	85 00	15 feet.....	15 50	150 00
9 feet.....	9 50	90 00	16 feet.....	16 50	160 00
9½ feet.....	10 00	95 00	17 feet.....	17 50	170 00
10 feet.....	10 50	100 00	18 feet.....	18 50	180 00
10½ feet.....	11 00	105 00	19 feet.....	19 50	190 00
11 feet.....	11 50	110 00	20 feet.....	20 50	200 00
11½ feet.....	12 00	115 00	21 feet.....	21 50	210 00
12 feet.....	12 50	120 00	22 feet.....	22 50	220 00
12½ feet.....	13 00	125 00	23 feet.....	23 50	230 00
13 feet.....	13 50	130 00	24 feet.....	24 50	240 00
13½ feet.....	14 00	135 00	25 feet.....	25 50	250 00
14 feet.....	14 50	140 00	26 feet.....	26 50	260 00
14½ feet.....	15 00	145 00	27 feet.....	27 50	270 00
15 feet.....	15 50	150 00	28 feet.....	28 50	280 00
15½ feet.....	16 00	155 00	29 feet.....	29 50	290 00
16 feet.....	16 50	160 00	30 feet.....	30 50	300 00
16½ feet.....	17 00	165 00	31 feet.....	31 50	310 00
17 feet.....	17 50	170 00	32 feet.....	32 50	320 00
17½ feet.....	18 00	175 00	33 feet.....	33 50	330 00
18 feet.....	18 50	180 00	34 feet.....	34 50	340 00
18½ feet.....	19 00	185 00	35 feet.....	35 50	350 00
19 feet.....	19 50	190 00	36 feet.....	36 50	360 00
19½ feet.....	20 00	195 00	37 feet.....	37 50	370 00
20 feet.....	20 50	200 00	38 feet.....	38 50	380 00
20½ feet.....	21 00	205 00	39 feet.....	39 50	390 00
21 feet.....	21 50	210 00	40 feet.....	40 50	400 00
21½ feet.....	22 00	215 00	41 feet.....	41 50	410 00
22 feet.....	22 50	220 00	42 feet.....	42 50	420 00
22½ feet.....	23 00	225 00	43 feet.....	43 50	430 00
23 feet.....	23 50	230 00	44 feet.....	44 50	440 00
23½ feet.....	24 00	235 00	45 feet.....	45 50	450 00
24 feet.....	24 50	240 00	46 feet.....	46 50	460 00
24½ feet.....	25 00	245 00	47 feet.....	47 50	470 00
25 feet.....	25 50	250 00	48 feet.....	48 50	480 00
25½ feet.....	26 00	255 00	49 feet.....	49 50	490 00
26 feet.....	26 50	260 00	50 feet.....	50 50	500 00
26½ feet.....	27 00	265 00			
27 feet.....	27 50	270 00			
27½ feet.....	28 00	275 00			
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28½ feet.....	29 00	285 00			
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30½ feet.....	31 00	305 00			
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33½ feet.....	34 00	335 00			
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37½ feet.....	38 00	375 00			
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39½ feet.....	40 00	395 00			
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41½ feet.....	42 00	415 00			
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42½ feet.....	43 00	425 00			
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44½ feet.....	45 00	445 00			
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45½ feet.....	46 00	455 00			
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46½ feet.....	47 00	465 00			
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47½ feet.....	48 00	475 00			
48 feet.....	48 50	480 00			
48½ feet.....	49 00	485 00			
49 feet.....	49 50	490 00			
49½ feet.....	50 00	495 00			
50 feet.....	50 50	500 00			

Tomato Supports, Wire. 32 inches high, 14 inches in diameter, made of heavy steel wire. 50 cts. each, \$5 per doz., \$40 per 100.

Twines

S. & W. Co.'s Smilax Thread. This Thread is very strong, green in color and warranted not to fade. Best Thread on the market. 30 cts. per spool, \$2.00 per 8 spools, \$5.50 per box of 24 spools.

Silkline. Very largely used for tying. Three sizes, F, FF, and FFF. 50 cts. per spool, \$3.75 per box of 8 spools.

Bouquet Twine. White. 3 oz. balls 35 cts. each, \$1.25 per lb., \$6 for 5 lbs.

Sea Island Cotton. Green. Ball, 20 cts.; box of 8 balls, \$1.25.

Twine, Soft. For tying vines, etc.; very strong, 2- and 3-ply. Ball 30 cts.; 3 balls 50 cts., 12 balls, \$1.80.

Tarred Yarn. Excellent, low-priced material for raspberries, shrubs, etc. Ball (2 lbs.) \$1.50, 5 balls, \$4.50.

Wire, Bouquet, Florists' Annealed. Nos. 22, 23, and 24. 1n coils of 12 lbs., \$2 per coil.

Florists' Bright. Cut in lengths. In boxes of 12 lbs. (one stone), 12 in. and 18 in. long. No. 22, \$2.25; No. 24, \$2.50.

Watering Pots

Heavy galvanized iron, reinforced; made well and substantially. Each pot has a long spout, with one fine and one coarse rose.

Round Pattern.

6-quart.....	\$5 00
8-quart.....	5 25
10-quart.....	5 75
12-quart.....	6 25

French Oval Pattern.

6-quart.....	\$5 75
8-quart.....	6 25
10-quart.....	6 50
12-quart.....	7 25

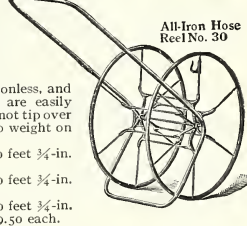
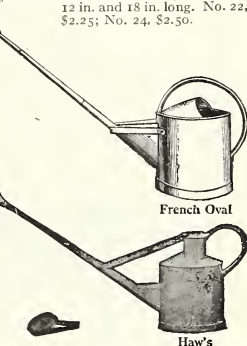
Haw's Pattern.

Ladies', 2-quart.....	\$3 75
No. 1, 3-quart.....	5 00
No. 2, 4-quart.....	6 75
No. 3, 6-quart.....	8 00
No. 4, 8-quart.....	9 00
No. 5, 10-quart.....	12 00

All-Iron Hose Reel

The All-Iron Hose Reels are constructed entirely of iron, and are indestructible. They are light in weight, frictionless, and the wheels being high, they are easily manipulated. These Reels cannot tip over when unreeled and there is no weight on the handle.

No. 10, 21-in. wheel, holds 100 feet ¾-in. hose, \$5.50 each.
No. 20, 24-in. wheel, holds 150 feet ¾-in. hose, \$6 each.
No. 30, 30-in. wheel, holds 500 feet ¾-in. hose, \$9.50 each.



Burners for Leaves, Paper and Rubbish

The best receptacle used for burning leaves, papers, and all kinds of rubbish. This handy Burner is a safeguard against many fires that have their origin in the burning of rubbish in the open. The Burner is extra strong, manufactured of heavy galvanized steel wire, reinforced with iron supports. Made to give life-long satisfaction. We supply this Burner in three sizes.

No.	Diam.	Height	Weight	Each
2	15 in.	24 in.	16 lbs.	\$4 50
2½	18 in.	30 in.	22 lbs.	6 50
3	20 in.	35 in.	33 lbs.	8 00



If you cannot locate any tools or implements you desire, refer to Index, page 144. Our Implement and Poultry Catalogue free on request.

Pruning Tools and Orchard Supplies

PRICES SUBJECT TO
MARKET CHANGES



Compound-Lever
Pruner

6-ft. \$2 25
8-ft. 2 50
10-ft. 2 75

Compound-Lever Pruner

Working parts, being made from forgings, are very strong, without being unnecessarily heavy, and the strength, durability, easy cutting qualities of this tool appeal to all who have occasion to use a strong and powerful Pruner. 10 ft., \$4.80; 12 ft., \$4.90; 14 ft., \$5; 16 ft., \$5.10.

Waters Tree Pruner

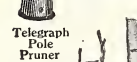
This Pruner has been before the public for over twenty-five years. It has numerous well-known advantages, and if a tool for ordinary pruning is required, the Waters will give entire satisfaction.



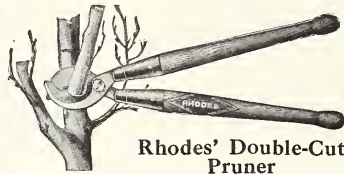
WATERS
IMPROVED
TREE PRUNER.

Telegraph Pole Pruner

This Pruner is similar in appearance to but of heavier construction than the Waters. This makes it very strong and durable. Plain, \$1.75; with handle, \$2.25. Extra knives, 40 cts. each; extra springs, 40 cts. each.



Telegraph
Pole
Pruner



Rhodes' Double-Cut
Pruner

A good and powerful Pruner. Cuts from both sides of the limb, and does not bruise the bark. Long ferrules; handles do not pull out; blades are of the best forged steel. 30-inch, \$3.50; 36-inch, \$3.75.

PRUNING SAWS



Paragon Pruning Saw

with the draw cutting and thrust cutting edges. Will cut large limbs better than the lighter Saws. 18-inch, \$2.10; 20-inch, \$2.30.

No. 4 Pruning Saw. Without this Saw no pruning outfit is complete. The tapering blade permits of its use in close places. Used for other purposes. A very useful Saw. 20-in., \$2.



No. 4 Pruning Saw

Two-Man Crosscut Saw. Has Tuttle (Lightning) teeth; cuts easily and rapidly; thin back, will not bind. 5-ft., \$4.50; 5½-ft., \$5; 6-ft., \$5.50.

Buck Saw. Quality kind. \$1.75.

Saw-Buck. Quality kind. \$1.25.



Double-Edge Pruning Saw

Double-Edge Pruning Saw. Has fine teeth on one edge and "Lightning" teeth on the other. 18-in., \$2; 20-in., \$2.15; 22-in., \$2.30.

Paragon Pruning Saw. A very good double-edge Pruning Saw. Cuts large limbs better than the lighter Saws. 18-inch, \$2.10; 20-inch, \$2.30.

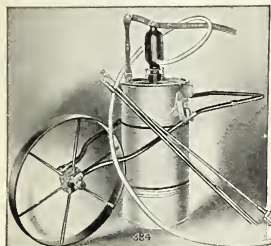
PRUNING SAWS, continued
One-Man Crosscut Saw. Can be used also as a Two-Man Saw. Has "Lightning" teeth; cuts easily and rapidly.

3½-ft. \$4 25
4½-ft. 5 50
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Sprayers for Applying Insecticides and Fungicides

PRICES SUBJECT TO MARKET CHANGES

Auto Spray No. 40 Hand Lever Pump COMPLETE OUTFIT



The demand for this portable Sprayer is rapidly increasing. The efficiency of this general-purpose Sprayer is finding favor among hundreds of gardeners, florists, and poultrymen.

Uses.—For handling whitewash, cold-water paint, insecticides, fungicides, and all solutions in the garden, greenhouse, or poultry tank.

Tank.—Heavy galvanized steel.

Capacity.—12 gals.

Pump.—Plunger style. Graphite packing, adjustable from the

outside by tightening two bolts. No leather cup.

Plunger.—Brass; $1\frac{1}{2}$ inches in diameter; 3 to $4\frac{1}{2}$ -inch stroke as desired. The plunger is hollow with a valve at the bottom and this, operating in connection with the air-chamber, ensures a greater reserve capacity than usual in this size of machine.

Valves.—Brass-ball valves; suction pipe fitted with brass strainer.

Agitation.—Mechanical and effective; operated from the handle. The top casting on the tank has broad flange, which prevents the solution from slopping over.

Equipment.—8-foot-high pressure; $\frac{3}{4}$ -inch hose; 8-foot iron extension; lever shut-off; and latest Vermorel Nozzle, or Non-Clog, Jr., as specified.

Repair list, with formula for mixing whitewash and cold-water paint, with each machine.

Galvanized tank, capacity 12 gallons, with truck, 20-inch wheel. Shipping weight, with truck, crated, 75 lbs. (net 58 lbs.) \$33.

Double-Acting Pump Sprayer and Knapsack Tank

THE SAME SPRAY WITH HALF THE LABOR

Pump.—This Pump is the ideal all-purpose sprayer. Its field is practically unlimited, as it may be used for spraying trees, vines, garden truck, potatoes, and any field crops. Made entirely of brass, doing away with all danger of corrosion. This pump is double-acting, which gives a continuous spray, a distinct advantage over single-acting pumps in that the pump

works on both the up and the down stroke. The pump cylinder is small in diameter, and in a test a pressure of 180 pounds to the square inch was raised with very little labor.

Knapsack Tank.—Where a portable tank for field or garden work is needed, we recommend our patrons' purchasing the Knapsack Tank as well as the Pump.

OUTFITS AND EQUIPMENT

Double-Acting pump, with $2\frac{1}{2}$ feet of $\frac{3}{4}$ -inch suction hose, nozzle, and strainer, complete..... \$6 00
Knapsack galvanized-iron tank, for field or garden work..... 3 50
Extension rod, curved brass..... 60
Two-row attachment of solid brass, for spraying two rows at a time..... 1 50

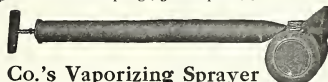


S. & W. Bucket Spray Pump

The S. & W. Spray Pump is a saving in the cost of small hand sprayers. It is a quality sprayer. This Pump is made of heavy seamless brass tubing, with a large brass air-chamber; it has brass ball valves, is double-acting and will produce a continuous spray or stream. A Bordeaux nozzle, with 3 feet of $\frac{1}{2}$ -inch spray hose is furnished. The nozzle can be regulated to throw a very fine, medium, or coarse spray. We recommend this Sprayer as the best cheap hand sprayer for applying whitewash, cold-water paint and disinfectants. When ordering Sprayer to be sent by parcel post, allow for 10 lbs., the packed weight of Sprayer. \$7.50.

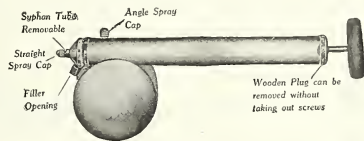
Extra $\frac{1}{2}$ -inch hose, seven-ply, of good quality, is furnished at 30 cts. per foot.

Extra couplings, 50 cts. per set.



S. & W. Co.'s Vaporizing Sprayer

A marvelous insect exterminator; throws a spray as fine as mist and is therefore more effective than any other Spray Pump, and loses only about one-tenth the liquid. Shipping weight, 3 lbs. No. 1, all tin, 75c.; No. 2, galvanized reservoir, \$1; No. 3, all brass, \$2.50.



S. & W. Co.'s Continuous Sprayer

Will handle all solutions, insecticides, and disinfectants. Used in the greenhouse, kitchen-garden, window-garden, for rose bushes, and in the poultry-house. Two spray caps—one straight, the other at an angle for reaching under leaves or spraying directly down. Construction of tank permits the Sprayer to be operated at any angle, and it will not tip over when filling. Galvanized reservoir, \$1.50; brass reservoir, \$1.75. Weight, 3 lbs.

S. & W. CO.'S BRASS SYRINGES

These Syringes are applicable for all horticultural purposes in the conservatory and garden. They are fitted with roses and jets for ejecting water in one stream or dispersing it in a fine or coarse spray, as required. Specially adapted for applying fluid insecticides.



No. A. Barrel, 12 in. long, diam. 1 in. One spray rose and one jet, \$3. Weight, 3 lbs.



No. H. Sheet-brass Syringe, with fixed spray rose. Barrel 16 inches long, diam. $1\frac{1}{2}$ inches, \$3.50. Weight, 4 lbs.



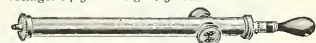
No. 10. Barrel 18 inches long, diam. $1\frac{1}{2}$ inches. One coarse and one fine spray rose and one stream jet, with patent valves and elbow joint for sprinkling under the foliage, \$7.50. Weight, 5 lbs.



No. G. Barrel 16 inches long, diam. $1\frac{1}{2}$ in. One spray rose and one stream jet, side attachments and elbow joint for sprinkling under foliage, \$5.50. Weight, 4 lbs.



No. 2. Barrel $13\frac{3}{4}$ inches long, diam. $1\frac{1}{2}$ in. One coarse and one fine spray rose and one jet, side attachment, \$5. Weight, 4 lbs.



No. 11. Same as No. 10, without patent valves, \$5.50. Weight, 5 lbs.

Sprayers for Applying Insecticides and Fungicides

PRICES SUBJECT TO MARKET CHANGES

AUTO-SPRAY

Convenient, durable, efficient. Our patented leader of spray apparatus for small uses. Will do better work and do it more easily than any other similar article. Useful with bordeaux and all solutions, also in applying cold-water paint or white-wash. Holds four gallons. Illustration shows our new "Auto-Pop" attachment which doubles the efficiency by saving half the solution and labor. Our "Anti-Choke" Nozzle, cleaned at every operation of "Auto-Pop," can never clog. Tank made of galvanized steel or brass. High-grade hose. Castings for handle, etc., all malleable. No continuous pumping as in the case of the Knapsack Sprayer, nor continuous pumping or slopping as in the case of the bucket pump. A few strokes of plunger compresses enough air to cover a quarter acre of potatoes or similar crop. The operator simply holds the nozzle. Also used for spraying disinfectants. A practical machine for potatoes, tobacco, small-fruits, vineyards, poultry-houses, greenhouses, etc. Extension pipes useful for spraying tall trees. Detailed descriptive circular on request.

Auto-Spray No. 1B. Brass Tank, with "Auto-Pop" \$12 00
Auto-Spray No. 1D. Galvanized Tank, with "Auto-Pop" 9 00

Two-row Attachments for spraying two rows at one passing..... 1 50
2-foot Brass Extension Pipe..... 60
2-foot Galvanized Extension Pipe..... 50
Brass Elbows for spraying under vines..... 35
Torch..... 1 50
Brass Strainer for straining solution..... 1 20
Auto-Spray Nozzle..... 75



Bamboo Spray Pole

SPRAY POLE FOR TALL-TREE SPRAYING

Bamboo Spray Pole

Bamboo Spray Poles are brass-lined to resist the corroding effect caused by strong solutions. Each Spray Pole is equipped with a drip-shield at the top and brass shut-off at the bottom. Spray Poles over 12 feet are not entirely satisfactory, and we do not recommend them. 8 ft. \$4.20, 9 ft. \$4.40, 10 ft. \$4.60, 12 ft. \$5.30.

S. & W. CO.'S "FRUITALL" SPRAY PUMP

The "Fruitall" illustrated herewith has been designed especially to meet the demand for a low-priced Sprayer combining the necessary durability, efficiency, and strength.

Outfit C. Sprayer with agitator and one lead of 15 feet $\frac{1}{2}$ -inch discharge hose, with "Mistry" or "Mistry Jr." spray nozzle. Price, without barrel, \$24.75.

Outfit D. Sprayer with agitator and two leads, 15 feet each, $\frac{1}{2}$ -inch discharge hose, with "Mistry" or "Mistry Jr." spray nozzle. Price, without barrel, \$33.

We supply barrel, and mount sprayer on it, for \$10 extra, but the barrel is not furnished unless specially ordered.

POMONA SPRAY PUMP

The Best Barrel Spray Pump on the Market

It is of large capacity and powerful, with long adjustable leverage, so that it is easily operated by one person, when necessary, but is especially built for spraying from two leads of hose. The unusually large steel air-chamber gives sufficient pressure for a continuous and regular spray. All working parts are of brass, including plunger and valves, which are easily accessible; it has a paddle agitator. The bulk of the pump goes within the barrel. It is not top-heavy, and does not catch low branches.

Pomona Outfit A. Sprayer with agitator and one lead of 15 feet of $\frac{3}{8}$ -inch spray hose, with Mistry Jr. Spray Nozzle.

With barrel..... \$48 00

Pomona Outfit B. Same as the above, except with two leads of hose and two nozzles. (See cut.)

With barrel..... \$57 00

Extra trunnions for barrel, \$2.25 per set.

S. & W. Co.'s Truck is recommended to save time and labor.

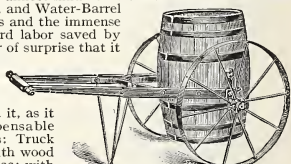


RUBBER SPRAY HOSE

High-pressure, $\frac{1}{2}$ -inch bore, seven-ply Hose is best. 30 cts. per foot. Low pressure, $\frac{1}{2}$ -inch bore, five-ply, 20 cts. per foot. Couplings and clamps, 25 cts. extra.

S. & W. CO.'S TRUCK, LEAF-RACK AND WATER-BARREL COMBINATION

When we consider the almost innumerable uses to which our combined Truck, Leaf-Rack, and Water-Barrel can be put, its handiness and the immense amount of time and hard labor saved by its use, it is not a matter of surprise that it is steadily growing in popular favor. It is one of those articles that causes the user to wonder how he ever did without it, as it really becomes indispensable when once used. Prices: Truck and barrel, as in cut, with wood wheels, $1\frac{1}{2}$ -inch tires, \$23; with steel wheels, 3-inch tires, \$27.50; with steel wheels, handy cart box, length 38 in. long by 24 in. wide by 10 in. deep, \$9.50 extra; with leaf-rack, 42 in. long by 28 in. wide by 21 in. deep, \$13.50 extra; complete with truck, with steel wheels, 3-inch tread, water-barrel, box, and leaf-rack, \$51.



Abol Syringe

The most economical and efficient of Hand Sprayers. Embodies all the good features that are desired. The new, improved nozzle has three caps—fine, medium, and coarse. The fluid is divided by two whirling streams which come into violent contact just before leaving the cap and scatter into tiny particles, which do not fall to the ground on being discharged, but hang in the air and envelop the tree or bush. A bend is furnished to spray the under foliage. \$13. Shipping weight, 4 lbs.

Bellows, Woodason's

Powder, small size..... \$2 75

" large size..... 4 25

Liquid, small size..... 3 75

" large size..... 5 25

Double - Cone Powder Bel-

lows. For dusting plant with dry powders for insects and fungus. \$6.25.



WOODASON'S PAT.
WORLD'S FAIR
HIGHEST AWARDS

SPRAYING IS A NECESSITY, AND OUR APPLIANCES ARE THE VERY BEST FOR THE PURPOSE. WRITE FOR OUR SPRAYING CALENDAR.

REMEDIES FOR INSECTS AND FUNGUS

NOTE—Insecticides marked * can be sent by Parcel Post at purchaser's expense. Consult your local post-office for rate from New York

ALL PRICES SUBJECT TO MARKET CHANGES

Aphine. Effective against all soft-bodied and plant-sucking insects, such as green, black, and white fly, red spider, thrips, mealy bug, brown and white scale. Used as a spray when diluted with water in the proportions as directed on each can. An insecticide which can be used indoors and in the garden. An excellent cleaner for house plants. Gal. \$3.75, qt. \$1.25, pt. 75 cts., ½ pt. 50 cts., ¼ pt. 30 cts.

Arsenate of Lead, Paste. For caterpillars and chewing insects. For spraying trees and shrubs against leaf-chewing insects, fruit flies, and codling moth. Contains 1½ per cent of arsenic oxide, mixes easily in water without clogging the physical top pain of kills, quick and will not burn foliage. Dilute 1 pound to 25 gallons of water. Lb. 45 cts., 5 lbs. \$2, 10 lbs. \$3.50, 25 lbs. \$6.50, 50 lbs. \$12, 100 lbs. \$22.

Arsenate of Lead, Powdered. Better than Paris Green. Does not burn foliage. Has all advantages of Arsenate of Lead Paste, but goes twice as far, and is easier to handle. Dilute 1 pound to 50 gallons of water. ½ lb. 40 cts., lb. 75 cts., 5 lbs. \$3.50, 10 lbs. \$6, 25 lbs. \$13, 50 lbs. \$24, 100 lbs. \$45.

Black-Leaf 40. A concentrated solution of nicotine sulphate; an excellent spray for black aphids and sucking insects of all kinds. Dilutes one part to 900 or 1,000 parts of water, according to treatment. Full directions on each package. 1-oz. bottle 25 cts., ½-lb. tin \$1, 2 lbs. \$3.25, 10 lbs. \$13.75.

Quick Bordeaux Material. Makes best Bordeaux mixture for apples, grapes, and vegetables of all kinds. Is different from other prepared fungicides on account of the physical top pain of kills materials, which permits their going into solution quickly, at the same time giving a perfect Bordeaux mixture, fresh and strong. A pound package makes 5 gallons of perfect Bordeaux mixture. Lb. 30 cts., 5 lbs. \$1, 10 lbs. \$1.75.

Bordeaux Mixture. A standard fungicide and may be used in connection with Arsenate of Lead, Paris Green and Nicotine. Its use is indispensable in the control of the Black Rot of Grapes and Blight of Potatoes. Full directions with each package. 1 lb. 40 cts., 5 lbs. \$1.75, 10 lbs. \$3.25, 25 lbs. \$6, 50 lbs. \$11, 100 lbs. \$20.

Bordo-Lead, Paste. Insecticide and fungicide—two sprays in one. Arsenate of lead combined with a special bordeaux mixture by a new process, producing in one spraying operation the killing of insects and preventing of blight, mildew, rust, etc. Splendid for potatoes and most vegetables, apples, pears, and roses. Sticks like paint and remains on foliage. Best crop insurance. Lb. 45 cts., 5 lbs. \$2, 10 lbs. \$3.50, 25 lbs. \$6.50, 50 lbs. \$12, 100 lbs. \$22.

Borowax. The fruit-grower's friend. A complete protection against borers if properly applied to peach, plum, apple, pear, and quince trees. Qt. 35c., ½ gal. 60c., gal. can \$1.60, 5 lbs. \$2.00, 10 lbs. \$3.50.

B. T. S. A definite chemical compound of sulphur with barium in which all of the sulphur and all of the barium are available as active ingredients. B. T. S. may be substituted for lime-sulphur solution in all spraying operations. This means that it can be used in both dormant and growing period applications in the place of the solution. Lb. 45 cts., 5 lbs. \$1.75, 10 lbs. \$3.25, 25 lbs. \$7.

***Bug Death.** Largely used instead of Paris Green. It is claimed to have the same effect. The manufacturers say that it acts as a fertilizer as well as an insecticide. It comes in powder form, and is applied pure. Not poisonous to persons. Lb. 25 cts., 3 lbs. 60 cts., 5 lbs. 80 cts., 12½ lbs. \$1.50, 100 lbs. \$11. We recommend the Dickey Bug Death Duster for use in applying Bug Death, dry, to small flower- or vegetable-gardens. It is a mighty handy thing to have around the house. 60 cts.

Bug Death Aphid. This preparation is for sucking insects, aphids, and other lice. It has been used for many years in orchards and garden work, especially for pear and beans. 12-oz. pkg. 25 cts., 8-oz. keg \$11.

"Cattle Comfort." Protects horses, cattle, dogs, etc., from flies, gnats, mosquitoes, horse-flies, and other insects; is healing to sores, destroys head-lice on fowls, etc. Qt. 75 cts., ½ gal. \$1.25, gal. \$2.

***Climax Lawn Sand.** A unique combination of carefully dried and finely ground chemicals. Destroys weeds in lawns. 3½-lb. can 65 cts., 7-lb. can \$1.25, 14-lb. can \$2, 28-lb. pkg. \$3.75, 56-lb. pkg. \$7.25, 140 lbs. \$14.

Copper Solution Ammoniated. A fungicide the same as bordeaux mixture; the essential ingredient, carbonate of copper, being dissolved in ammonia in this, while in bordeaux it is counteracted by lime. For late spraying, when fruits are nearly mature, or plants in bloom, copper solutions are usually used. Qt. \$1.25, gal. \$4.

***Cut-Worm Killer.** A coarse powder for sprinkling near the plants. It has an enticing odor, and the worms prefer it to vegetation. Chickens and birds will not be poisoned if they eat the worms killed by it. Do use poisonous cut-worm killers—they kill the birds. One-pound sprinkler box 35 cts.; 5-lb. tin \$1.40.

Formaldehyde. Used for destroying disease germs that affect animal and plant life; also as a preventative for potato scab, onion and grain smuts. A pound to 15 gallons of water. A gallon of solution to a bushel of seed is required for treatment. Sold in 1-lb. (1 pint) bottles, 75 cts. each.

Fungine. An infallible remedy for mildew, rust, wilt, bench-rot, and other blights affecting flowers, fruits, and vegetables. Highly indorsed by leading growers. It is equally effective under glass and out-of-doors. A spraying material which is diluted with water, and does not stain foliage. Gal. \$7.75, qt. \$1.25, pt. 75c., ½ pt. 50c.

***Grape Dust.** For mild, mildew, or rust-mites, either in the green-houses or open air. 5 lbs. 85 cts., 10 lbs. \$1.60, 25 lbs. \$3.75.

Hellebore, Powdered. Good for exterminating currant worms. ½-lb. 40 cts., lb. 75 cts., 5 lbs. \$3.50.

Herbicide. See Weed Killers, page 142.

Kerosene Emulsion. For plant lice and other soft-bodied insects, especially woolly aphid; also for rose bugs, cabbage worms, scale, and melon louse. Contains 55 per cent kerosene. Dilutes 1 part to 25 to 50 parts of water. Qt. 70 cts., gal. \$1.75, 5 gal. \$7.

Kerosene Miscible Oil. Better than Kerosene Emulsion, mixes easier, has greater killing power, and is especially valuable against all soft-bodied insects. Can be used on practically all insects for which nicotine is employed. For woolly aphid on apple and thorn it is much more effective than nicotine. Contains 80 per cent kerosene. Dilute 1 part of Oil to 16 parts of water. Tender plants 1 part to 36 parts of water. Pt. 45 cts., qt. 75 cts., gal. \$2, 5 gal. \$9, 50 gal. \$65.

Lemon Oil. Odorless and poisonous; one to thirty to fifty parts of water. Destroys mealy bug, scale, thrips, red spider, black and green fly, caterpillar, etc. ½ pt. 40 cts., pt. 60 cts., qt. ½ gal. \$2.25, 5 gal. \$11.

Lime-Sulphur, Bowker's Concentrated. For destroying San José scale. One gallon makes ten gallons of spray; dilute with cold water. Bowker's Lime-Sulphur is manufactured under the direct personal supervision of skilled graduate chemists who have devoted their entire life to the study of spraying materials. With the one dominant idea that any spray to be worth branding "Bowker's" must be the best. Bowker's is "Lime-Sulphur" with the guesswork left out. Qt. 50 cts., 1-gal can \$1, 5-gal can \$3.25, half-barrel (about 25 gals.) \$8.50, barrel (50 gals.) \$15.

Melrosene. A real remedy for rose-bug troubles. Dilute 1 pint and 3½ ounces Melrosene with 3 gallons of water, for general use. Sample can, 50 cts., pt. can \$1, qt. can \$1.75, ½-gal. can \$3.25, gal. can \$6.

Nico-Fume Liquid. This preparation is used similar to Nicotidene, and is used by many of the leading growers. ½-lb. can 75 cts., 1-lb. can \$2.25, 4-lb. can (½-gal.) \$6.50, 8-lb. (1 gal.) \$10.50.

***Nico-Fume Paper.** This is a paper treated with nicotine, giving off dense fumes of strong nicotine when ignited. It is also used for tying near blooms of chrysanthemums in early fall to keep down insects. Preferred by many who do not wish to spray or vaporize. Box of 25 sheets, \$1.50, box of 100 sheets, \$4.00, box of 250 sheets \$11.50.

Paris Green. ½-lb. 25 cts., ½ lb. 40 cts., lb. 75 cts., 5 lbs. \$3.50, 14 lbs. \$8.50.

Pyrox (Bowker's). The one best and safest all-around spray which kills all leaf-eating insects and prevents blights and all fungus troubles without injury to plants, trees, grape-vines, currant bushes, potatoes, cantaloupes, cucumbers, and other garden vegetables, also on rose bushes, shrubbery, etc. It is a creamy paste which looks like paint and "sticks like glue." It needs only to be mixed with cold water and it is ready to apply. Once tried, always used. Lb. 40 cts., 5 lbs. \$1.75, 10 lbs. \$3, 25 lbs. \$6.25, 50 lbs. \$11, 100 lbs. \$20, 300 lbs. \$57.

Readeane. Rose-bug exterminator. A poisonous preparation which dilutes in water. Destroys rose bugs, greenfly, mealy bug, light mildew, etc. 24-oz. bottle, ½ gal. can \$2.25, gal. \$4, 5-gal. can \$17.50, 10-gal. can \$34.

Scalecide. Soluble crude oil. Used for the destruction of the San Jose Scale. Dilute 40 parts of oil to 60 parts of water. Scalecide does not clog nozzles, hose or pump, and is pleasant to use. This preparation is perhaps the best known and is very widely advertised. Orchardists throughout the country use it in large quantities. Trees may be sprayed in winter and early spring before they start to come to bud. Qt. 70c., gal. \$1.75, 5 gals. \$7, 10 gals. \$12, 30-gal. bbl. \$30.25, 50-gal. bbl. \$45.



REMEDIES FOR INSECTS AND FUNGUS

NOTE.—Insecticides marked * can be sent by Parcel Post at purchaser's expense. Consult your local post-office for rate from New York

ALL PRICES SUBJECT TO MARKET CHANGES

***Slug-Shot.** The standard remedy for currant worms, rose slugs, cabbage worms, and almost any soft-shelled insects that infest the garden. Lb. 20 cts., 5 lbs. 75 cts., 10 lbs. \$1.20, 100 lbs. \$10.

Sulcitic. To prevent bleeding of vines after pruning. Bottle, \$2.

Sulco-V. B. A combined contact insecticide and fungicide of unusual merit for the control of San Jose and other scale insects, aphids, white fly, pear psylla, red spider, red bug, leaf-blister, mite, thrips, citrus rust mite, cabbage lice, and fungus spores causing peach-leaf curl, brown or ripe rot of peach and other stone fruits, apple and pear scab, smut and mildew on various plants, etc. Also used as a sheep, cattle- and hog-kill, and for controlling poultry and cattle lice. Dilutes 1 to 25 and up to 1 to 100, according to requirements. Pt. 40c, qt. 75c., 1/2 gal. \$1.35, gal. \$2.50, 5 gals. \$8.50, 10 gals. \$15.

***Sulphur.** Used principally in greenhouse for checking mildew (see below for Campbell's Sulphur Vaporizers). Lb. 25 cts., 5 lbs. \$1, 10 lbs. \$1.60, 100 lbs. \$12.

Sulpho-Tobacco Soap. A combination of tobacco extract and sulphur, excellent for washing and spraying plants; dissolve in warm water. 3-oz. pkg. 15 cts., 8-oz. pkg. 25 cts., 10-lb. pkg. \$3.

***Tobacco Dust (Kilmdead).** The best of the Tobacco Dusts for dusting or fumigating. Lb. 25 cts., 5 lbs. 75 cts., 25 lbs. \$2, 50 lbs. \$3.50, 100 lbs. \$6.

Tobacco Stems. Used for fumigating and under benches in greenhouses. Bale 100 lbs. \$4.

***Tree Tanglefoot.** A paste preparation for painting around the trunks of trees, in the form of a band. Caterpillars and other crawling pests cannot get over it. Lb. 50 cts., 5-lb. can \$2.40, 10-lb. can \$4.50, 20 lbs. \$8.75, 25 lbs. \$10.50.

Tree Wound Paint. Prevents decay. A residuum, penetrating, antiseptic paint that is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding. Pt. 60 cts., qt. 1 gal. \$2.50, 5 gals. \$11, 50 lbs. \$30.

Vermine. A soil sterilizer and germicide for all soil vermin, such as cut, eel, wire-, and grub-worms, slugs, root-lice, maggots and ants. Use one part of Vermine to four hundred parts of water, thoroughly soaking the ground. It does its work effectively without injury to vegetation, and protects your crops and lawns against the ravages under the soil. 1/4 pt. 30 cts., 1/2 pt. 50 cts., pt. 75 cts., qt. \$1.25, 1 gal. \$3.75.

Liquid Weed Killer—Herbicide

There is nothing more annoying to the well-kept home grounds than weeds constantly coming up in the roadways, paths and gutters. The weed killer may be applied by means of a sprinkling apparatus of any kind from the small sprinkling can to the large street-sprinkling wagon. It is harmless to stone, woodwork, or shoes and is perfectly odorless. One thorough application will kill all weeds as well as the roots of the same. It is a combination of high-grade chemicals which when diluted according to the directions given will destroy weeds at once. The best time to apply is shortly after a rain. One gallon of either of these preparations diluted is sufficient to cover 100 to 150 square yards of space. This is a standard preparation which the manufacturer recommends being diluted 1 part to 40 parts of water. Qt. 60 cts., 1/2 gal. \$1, gal. \$2, 5-gal. keg \$18, 10-gal. keg \$15, 30-gal. cask \$33, 50-gal. bbl. \$50.

MAG-O-TITE. Insures a good crop of radishes, kale, cabbage, onions, turnips, cauliflower, etc. You can now sow any of these crops and be certain of protection against the destructive root maggot, earth worm and other pests. **Quantity required:** A 2-lb. package will cover about 300 feet of drill, mixed with the soil at planting time, with an occasional top dusting as a preventive during the growing period. For field culture the approximate quantity required is from 300 to 500 lbs. per acre.

2-lb. packages	50	25-lb. sacks	\$3
4-lb. packages	75	100-lb. sacks	9
8-lb. packages	125		

Fish-Oil Soap. For mild forms of scale, and is an excellent summer spray, when something stronger cannot be used, where the San Jose scale exists. It is good for washing off lemon trees, oleanders and almost anything that would be infested with a soft-shelled or in fact almost any kind of insect. Dissolves in water according to various purposes. Lb. 35 cts., 5 lbs. \$1.50, 10 lbs. \$2.75, 25 lbs. \$5.50, 100 lbs. \$18.

Worm Eradicator, Reade's. When applied, the worms will immediately rise to the surface of the ground, or will fall off the trees, fruits or flowers, and in a few minutes will die. 24-oz. bottle makes 25 lbs. \$1; 1 gal. \$4; 5 gals. \$17.50; 10 gals. \$34.

Worm Eradicator. Common earthworms or "angleworms" are a decided nuisance in lawns, turf courts, and putting-grounds. The casts are unsightly, impair the playing qualities of greens and add greatly to the upkeep cost, as daily sweeping and rolling become necessary. To rid greens, courts or lawns of worms, apply Worm Eradicator evenly at the rate of one-half pound to the square yard, and flood the greens immediately. If possible, the application should be made on a warm, damp day, early in May. The worms will come to the surface, where they may be raked or swept up and removed. One application each season is usually sufficient; but, should the worms again become numerous, a second application should be made about the middle of September. Worm Eradicator is non-poisonous to human beings. It is decidedly beneficial to the grass, having a direct but mild fertilizing action which adds materially to its value. Sold in powder form. 5 lbs. 90 cts., 10 lbs. \$1.75, 25 lbs. \$3.75, 50 lbs. \$7, bag (100 lbs.) \$11, 1/2-ton \$50, 1-ton \$90, 1-ton \$175.

X-L-ALL LIQUID INSECTICIDE. Destroys mealy-bug, scale, thrip, red-spider, green and black fly, caterpillars, blight and all insect pests in the garden; it is perfectly safe to use on tender plants. For the winter dressing of vines, figs, peaches and other fruit trees, it has been proved to be the most and most valuable preparation in the market. Leaves the foliage bright and clean and, much improved in appearance. Qt. \$2, 1/2 gal. \$3.75, gal. \$7.

X-L-ALL Vaporizing Compound. Used very extensively abroad for vaporizing. No. 1 (sufficient for 40,000 cubic feet) \$8; No. 2 (sufficient for 20,000 cubic feet) \$5; No. 3 (sufficient for 10,000 cubic feet) \$2.50.

Fumigators and Vaporizers



Fumigator, "Eureka." For fumigating with tobacco stems.

No. 1, holds 1/2 peck stems	\$3
No. 2, holds 1 peck stems	4
No. 3, holds 1 1/2 bushel stems	5

Vaporizing Lamp, Defiance

Practical and indestructible; all metal; burns kerosene; used for dispensing fumes of Nico-Fume and other preparations of this sort. 75 cts.

Vaporizer, Campbell's Patent Sulphur

Designed to vaporize sulphur in greenhouses without danger. Most useful for killing mildew and other fungous diseases. No. 1, for houses up to 5,000 cubic feet of space

No. 2, for houses up to 10,000 cubic feet of space	\$7
No. 3, for houses up to 20,000 cubic feet of space	10

Glass Balls for above. Box of 6, 25 cts.

Yellow Powder. Tin, 30 cts.

Hollow, or Solid Wicks, for either size, 25 cts.

X-L-ALL Vaporizing Lamp. A lamp specially designed for vaporizing of X-L-ALL Compound. Small size, 75c.; larger size, \$1.



Sulphur Vaporizer

CHARCOAL, COCOANUT FIBER, PEAT AND MOSS

Charcoal. For prices and sizes, see page 143.

Cocoon Fiber. Excellent material for use in growing bulbs without drainage. 5 lbs. 40 cts., 25 lbs. \$1.25, 50 lbs. \$2, 100 lbs. \$3.50.

Leaf-Mold. Used for preparing rhododendron beds. Bbl. \$3.50.

Moss, Live Green Sphagnum. Freshly gathered in season. Bbl. \$5.

Moss, Dry Sphagnum. Large bale \$5.

Moss, Sheet, Natural Green. For covering the pots or tubs of large plants; sheets range in size about 1 foot wide and from 2 to 5 feet long. Bag (10 lbs.) \$5.

Peat, (Osmund.) For orchids. Bbl. \$4.

Peat, Rotted, Fibrous. An excellent material for mixing with potting soil, for raising plants. The peat has been dug from an old bog and exposed for a number of years until it has become thoroughly decayed. Bbl. \$4.

FERTILIZERS

Our list contains the very best and most modern kinds.
We can quote special prices on carload quantities

All prices subject to market
changes

No. 2 Bone Dust for General Use. A bone dust about pinhead size, with a fair percentage of bone flour. Excellent for top-dressing lawns as well as good for mixing with soil. Sold largely to carnation- and rose-growers for top-dressing and for mixing with soil. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.75, 50 lbs. \$3.25, 100 lbs. \$6, ton \$100.

S. & W. Co.'s Charcoal. For mixing with soil for pot- plants and vines. No. 1, powdered; No. 2, Medium; No. 3, Lumps, 3 to 4 inches. Any size, per 50 lbs. \$3.25, 100 lbs. \$6, 1,000 lbs. \$55, 2,000 lbs. \$100.

S. & W. Co.'s Potato Manure. This brand is our leader, and is manufactured from a bone-and-meat basis; it is high in analysis and a strictly high-grade fertilizer. It is a brand that has given universal satisfaction for all root-crops, and it is unequalled for potatoes, gardening or truck-farming. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.75, 50 lbs. \$3, 100 lbs. \$5.25, 500 lbs. \$24, 1,000 lbs. \$46, ton \$90.

S. & W. Co.'s General Garden Fertilizer. This Fertilizer is for general garden work for vegetables, flowers and fruits. 10 lbs. sufficient for space 15 x 15; 500 lbs. to the acre, 5 lbs. 60 cts., 10 lbs. \$1, 25 lbs. \$2, 50 lbs. \$3.75, 100 lbs. \$6.50, ton \$95.

S. & W. Co.'s Corn Fertilizer. This is a brand which maize farmers prefer to employ who have sufficient quantities of stable manure for broadcast application, using this brand in the hill or drill. We have many testimonials as to its quality for growing splendid crops of corn. 50 lbs. \$2.50, 100 lbs. \$4.25, 500 lbs. \$19, 1,000 lbs. \$37, ton \$72.

GENERAL LIST OF FERTILIZERS

ASHES, CANADA HARDWOOD. Quantity required: Apply one to two tons to the acre, as one heavy application will help much more than the same quantity would applied in fractions. Apply in early spring or late fall. Barrels of about 200 lbs. \$5; ton in barrels, \$40; carload lots of about 30 tons, \$30 per ton.

BLOOD. (Dried.) Excellent for indoor culture of flowering plants, such as carnations, roses, etc. Its chief chemical is nitrogen. 10 lbs. \$1.50, 50 lbs. \$6, 100 lbs. \$10.

BON ARBOR. A concentrated chemical fertilizer to be used in liquid or powder form according to the directions on the package. Dilute 1 pound with 30 gallons of water. 7 1/2 lb. pkg. 50 cts., 1-lb. pkg. 75c., 5 lbs. \$2.50, 50 lbs. \$18. In lots of 100 lbs. or over \$3 per 100 lbs.

CLAY'S CELEBRATED FERTILIZER. In bags, 1 cwt. (112 lbs.), \$16; 1/2 cwt. (56 lbs.), \$8; 3/4 cwt. (28 lbs.), \$4.25; 3/8 cwt. (14 lbs.), \$2.50.

COW or CATTLE MANURE, Shredded. One sack of this is equal to one carload of fresh cow manure; is convenient to handle, making it possible for everyone to get this usually scarce article at all times. In 100-lb. sacks only. 100 lbs. \$5, 500 lbs. \$18, 1,000 lbs. \$34, ton \$65.

EMERALD GRASS FERTILIZER. A clean, portable, and convenient lawn dressing, which we have found to be never-failing in inducing a rapid and rich green growth. It should be sown broadcast in the spring or fall. It is in every way more desirable than manure. The use of Emerald Grass Fertilizer entirely does away with the old practice of top-dressing lawns with stable manure. Quantity required: A 10-lb. package is sufficient to go over an area of 300 square feet, or for forming a new lawn, from 1,000 to 1,500 lbs. to the acre, or a smaller quantity for renovating an old one. It is best to apply during dull weather and, if applied during warm weather, soak down with a hose after applying. 50 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$2, 50 lbs. \$3, 100 lbs. \$5.50, 500 lbs. \$22, 2,000 lbs. (ton) \$80.

BACTRELO. Garden-size bottle 50 cts., acre-size bottle \$1.50, 2-acre-size bottle \$2.50, 5-acre-size bottle \$5. When ordering, state what seed you wish to inoculate. Pamphlet telling all about inoculation free on request.

HUMUS. An excellent product for enriching lawns, also good for gardens. Used in making fine lawns where soil conditions are poor. 50 lbs. \$2, 100 lbs. \$3.50, 500 lbs. \$15, ton \$40. Write for prices on carload lots delivered to your station.

LIME, Agricultural, Hydrated. This lime is specially prepared for use on the soil and is a combination of calcium-hydrate and calcium-carbonate, finely pulverized. Quantity required: Heavy soils, 2,000 to 6,000 lbs. to the acre; light, sandy soils, 1,000 to 3,000 lbs. to the acre, according to their apparent need. 5 lbs. 30 cts., 50 lbs. 50 cts., 25 lbs. \$1, 100-lb. bag \$2, 500 lbs. \$8.75, ton \$30. In lots of 3 tons or over, \$27 per ton; carload lots, \$20 per ton, f. o. b. New York.

LIMESTONE, PULVERIZED. This product is having a large sale among the most intelligent agriculturists, with the best results. It is made from the purest crystalline, white limestone obtainable, and has many advantages over burnt or caustic lime. Not being caustic, it does not burn the humus in the soil, and may be applied at any time of the year without danger. It is good for all crops,

Limestone, Pulverized, continued

especially for the successful growing of alfalfa, and, owing to its extreme fineness, admits of very even distribution. Apply 2 tons to the acre. Put up in 100-lb. bags, \$2, 500 lbs. \$8, 1,000 lbs. \$15, ton \$27. In carload lots, in bags, 1 c. b. works, \$14 per cwt.

NITRATE OF SODA. Quantity required: Being extremely soluble, it is usually applied after the plants are above ground. 100 to 500 lbs. to the acre. 1-lb. tin 25 cts., 5-lb. pkg. 75 cts., 10-lb. pkg. \$1.25, 25-lb. bag \$2, 50-lb. bag \$3.50, 100 lbs. \$6.

OYAMA PLANT FOOD. Makes plants thrive. By using Oyama on house plants it will keep them in bloom all winter and as green and luxuriant as if grown outdoors in the summer. It will make your flower and vegetable garden wonderfully productive. It makes no difference how healthy or delicate your plants may be. Oyama will bring out new flowers and foliage and cause a marvelous transformation. Contains no bone, fish scraps, or manure. Food for plants, flowers, vegetables. Clean, odorless, safe to use. Oyama contains 17 per cent nitrogen. It keeps the soil rich but odorless. Highly concentrated, easily applied and economical to use. Never fails to produce wonderful results. Full directions with every package. House Plant Size, makes 6 gallons, 35 cts.; Garden Size, makes 32 gallons, \$1.25.

PHOSPHATE, High-Grade Acid or Rock. Apply 1,000 lbs to the acre. Used for mixing with other fertilizers to increase the phosphoric acid analysis. In 200-lb. sacks only, \$7, ton \$50.

SALT. For agricultural purposes, asparagus beds and putting on walks and roads to kill weeds. Apply 600 to 800 lbs. to the acre in early spring. 25 lbs. \$1, 50 lbs. \$1.50, 100 lbs. \$2.25, 200 lbs. \$4, ton \$35.

SCOTCH SOOT. Genuine imported. For stimulating a healthy growth of dark green foliage, and it will free the soil of slugs, grubs and cut-worms. 10 lbs. \$1.25, 50 lbs. \$4.25, 100 lbs. \$8.

SHEEP MANURE, PURE PULVERIZED. A pure, natural, nutritious manure. Immediate and lasting in effect. Excellent for mixing with the soil for greenhouse plants. In the vegetable-garden it promotes a rapid, steady growth until maturity. It makes a rich liquid manure. Quantity required: For garden and field-crops, one or two tons to the acre; one-half before plowing, the balance before harrowing. For top-dressing grass, use one ton to the acre, applied in fall or early spring. 100-lb. bag \$5, 500 lbs. \$18, ton \$65. In packages of 50 lbs. 50 cts., 100 lbs. 90 cts.

SPENT MUSHROOM SOIL. Partially decayed horse-manure. A plant-food low in price and high both in fertilizing value and humic content. There is no better material for making a compost heap, for top-dressing putting-greens and fine lawns. Prices on carload lots delivered to your shipping point quoted on request.

TANKAGE. The mixture of blood and bone can be used for general garden crop trees, or in the greenhouse. Use outside use one-half to one ton per acre. 10 lbs. 80 cts., 25 lbs. \$1.75, 50 lbs. \$3, 100 lbs. \$5.50.

THOMSON'S CHRYSANTHEMUM MANURE. A highly concentrated English chemical fertilizer used by the leading private gardeners in America and abroad. May be used in liquid or dry form. 7-lb. bag \$1.75, 14-lb. bag \$3, 28-lb. bag \$5.50, 56-lb. bag \$10.

THOMSON'S SPECIAL FLOWER, VEGETABLE AND VINE MANURE. 28-lb. bag \$3, 56-lb. bag \$5.50, 112-lb. bag \$10.

All legume crops should be inoculated. Few soils contain sufficient bacteria to provide self-inoculation. Artificial inoculation with pure cultures has long since been determined by the experiment stations to be the only safe and sure way

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